



LIBRARY
OF THE
UNIVERSITY
OF ILLINOIS

551.05

UNP

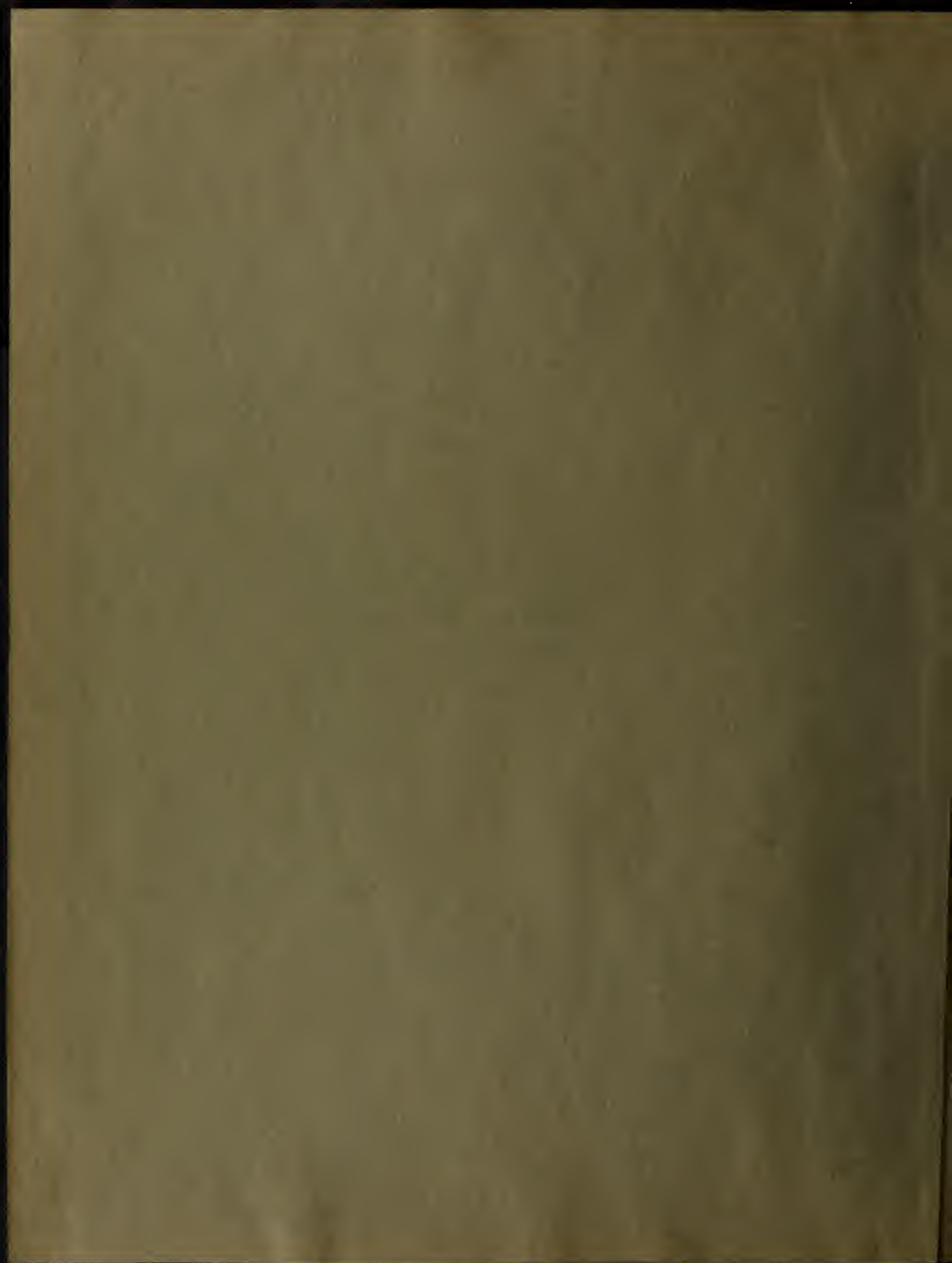
1920-26

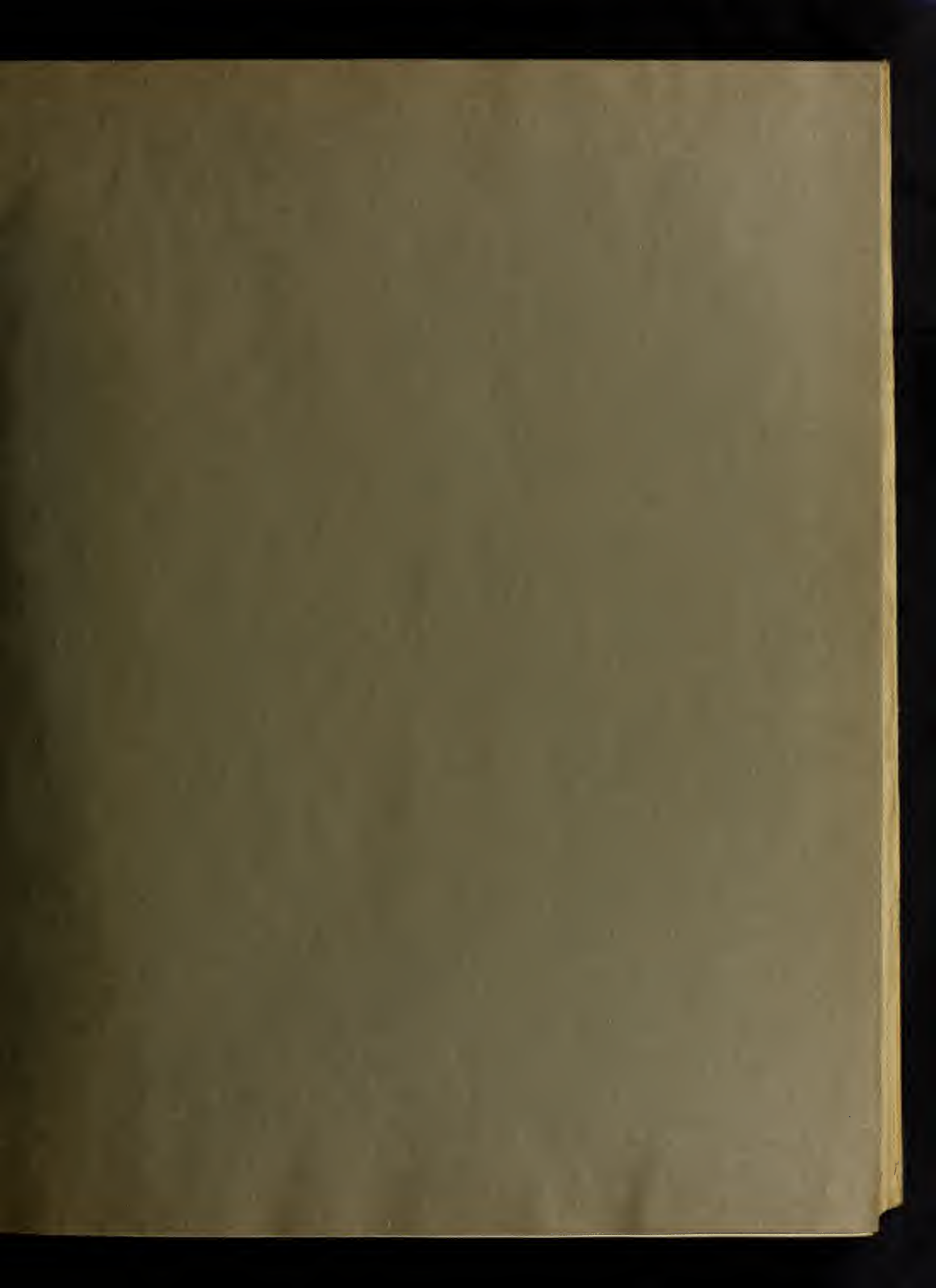
Return this book on or before the
Latest Date stamped below. A
charge is made on all overdue
books.

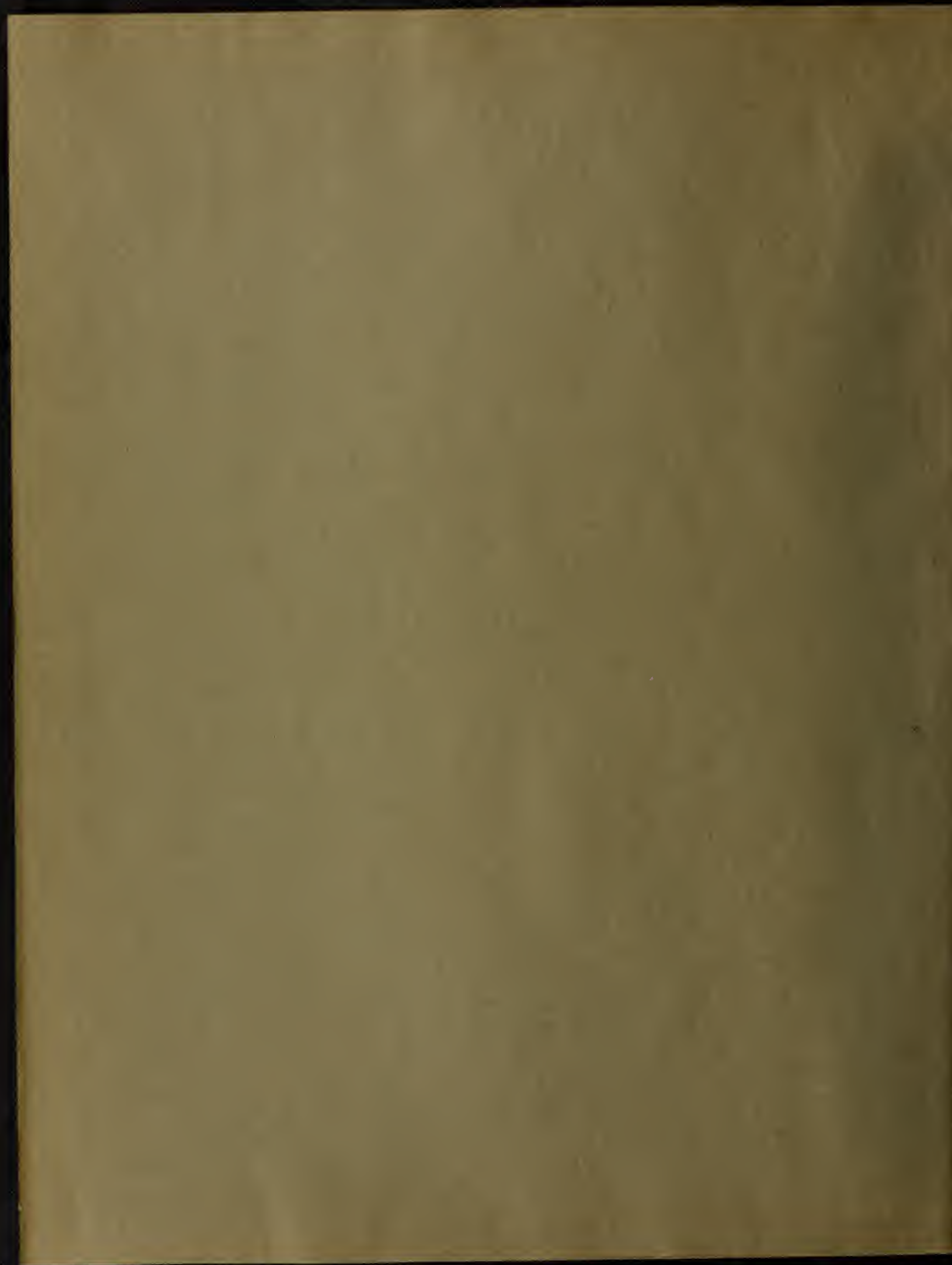
University of Illinois Library

9/20
5/7/54

L161—H41







51.05
UNP

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

U. S. DEPARTMENT OF AGRICULTURE

FEB 10 1920

CLIMATOLOGICAL DATA

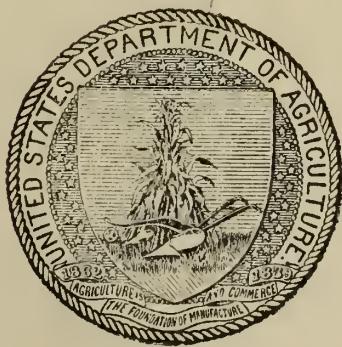
PENNSYLVANIA SECTION

JANUARY, 1920.

BY

GEORGE S. BLISS

METEOROLOGIST



PHILADELPHIA, PA.
WEATHER BUREAU OFFICE
FEBRUARY 19, 1920. F

Departure of the Mean Temperature from the Normal, January, 1920.



Shaded portions show excess (+).
Unshaded portions show deficiency (-).
Lines show amount of excess or deficiency.

55105
1920-26

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

VOL. XXV. PHILADELPHIA, PA., JANUARY, 1920. No. 1.

GENERAL SUMMARY.

The month as a whole was cold, stormy, dark, and disagreeable. Weather conditions were very unfavorable for out door work of all kinds. There were few days warm enough to permit of concrete work or masonry construction of any kind, and building work of all kinds was practically at a stand still. The highways were in poor condition a large part of the time and motor trucking was difficult, while the low temperatures made driving very uncomfortable. Ice harvest was in full swing and was well advanced at the end of the month. The ice was of good quality and of ample thickness to make good blocks. The weather was so severe that it was necessary to keep stock housed most of the time. The changeable conditions caused considerable sickness. Pneumonia was unusually prevalent and severe, and there was considerable influenza and grip, while common colds were the general order. The shipping and handling of perishable goods was difficult, and despite all possible precautions the losses were considerable. There was much foggy weather, especially in the southeastern part of the State. The ice in the Delaware at Philadelphia was unusually heavy and it was almost impossible for the ice boats to keep it broken and open for traffic. The fuel supply was ample at all times, so the severe changeable conditions did not cause so much suffering as was experienced in January two years ago.

TEMPERATURE.

The mean temperature for the State, as recorded at 74 stations, was 20.9°, or 7.1° below the January normal. A deficiency was reported from all stations, and was generally the greatest in the north-central and northwestern counties, and was least in the south-central counties. Cold periods extended from the 1st to the 6th, and from the 14th to the 20th inclusive, while during the last ten days the temperature changes were very rapid. Extremes of temperature were recorded on various dates in the different parts of the State, so that no date could be designated as the coldest or warmest for the State as a whole. The highest temperature was 59° recorded at Punxsutawney on the 12th, and the lowest was -23° at Sagerstown on the 15th. The highest station mean was 28.0° at Uniontown, and the lowest was 12.9° at Wellsboro.

PRECIPITATION.

The average precipitation for the State, as reported from 106 stations was 2.47 inches, or 0.85 inch less than the January normal. A deficiency occurred at nearly all stations, but was generally greatest in the northwestern counties. The snowfall averaged 10 inches. A sleet and ice storm covered practically all districts from the 19th to the 24th but there was very little damage reported. The greatest monthly precipitation was 5.35 inches at George School, and the least was 1.00 at New Castle. There was considerable rain in the southeastern portion of the State, but most of the precipitation in the northern counties was in the form of snow. The heaviest snowfall reported was 27.0 inches at Edinboro, on the divide south of Lake Erie, and the next heaviest was 23.0 inches at Clearfield.

BAROMETRIC PRESSURE AND WINDS.

Stations.	In inches, reduced to sea level.					Total movement, in miles.	Velocity, in miles per hour.			
	Average.	Highest.	Date.	Lowest.	Date.		Average.	*Highest.	Direction.	Date.
Erie.....	30.22	30.90	31	29.44	16	12,079	16.2	60	se.	20
Harrisburg.....	30.23	30.94	31	29.55	1	5,717	7.7	34	w.	14
Philadelphia.....	30.23	30.97	31	29.52	1	9,116	12.3	87	n.	31
Pittsburgh.....	30.24	30.79	31	29.47	16	9,728	13.1	46	sw.	9
Reading.....	30.23	30.99	31	29.54	1	6,219	8.4	31	nw.	14
Scranton.....	30.21	31.00	31	29.48	1	6,305	8.5	36	sw.	13

* For any five-minute period.

SUNSHINE AND HUMIDITY.

Stations.	Sunshine.					Humidity.		Fog.	
	Total hours of Sunshine	Number of hours possible.	Percentage of possible.	Number of days with.		Average per cent.		Number of days with.	
				80 per cent or more.	20 per cent or less.	8 a. m.	8 p. m.	Light fog.	Dense fog.
Erie.....	118.6	295.3	40	3	12	80	80	0	0
Harrisburg.....	115.7	300.9	38	4	12	67	68	1	0
Philadelphia.....	115.0	300.9	38	9	16	70	68	11	4
Pittsburgh.....	100.1	298.2	34	4	15	80	69	8	0
Reading.....	124.8	300.9	41	5	12	74	69	6	0
Scranton.....				1	18	84	70	7	0

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	23.2	61	-19	4.19	6.75	2.12	5	11	15
1889.....	29.4	68	-5	3.54	7.02	1.82	19	13	9
1890.....	37.5	77	-2	3.04	6.87	1.47	7	8	16
1891.....	30.5	64	-4	3.64	8.74	1.22	6	10	15
1892.....	26.2	66	-28	4.77	8.46	2.08	8	8	15
1893.....	19.0	57	-25	2.85	4.82	1.65	7	10	14
1894.....	32.8	65	-9	2.29	4.71	0.83	9	9	13
1895.....	24.2	58	-17	4.17	6.36	1.83	7	10	14
1896.....	27.6	60	-15	1.43	2.40	0.52	8	9	14
1897.....	25.6	74	-25	2.15	3.54	0.87	8	8	15
1898.....	30.7	67	-16	4.25	7.57	1.32	6	8	17
1899.....	26.6	66	-21	3.05	4.84	0.82	12	8	11
1900.....	29.8	63	-8	2.64	4.37	1.36	8	9	14
1901.....	29.1	59	-10	2.22	4.41	0.74	8	8	15
1902.....	25.6	58	-13	2.80	5.15	1.00	8	9	14
1903.....	26.9	68	-13	3.31	5.09	1.49	6	8	17
1904.....	20.0	66	-42	3.55	5.82	2.08	10	6	15
1905.....	23.8	69	-21	3.70	7.55	1.72	8	8	15
1906.....	35.0	85	-4	2.53	5.28	0.76	10	8	13
1907.....	30.0	75	-23	4.36	9.69	2.14	6	7	18
1908.....	28.4	59	-18	2.68	5.33	1.46	12	8	11
1909.....	31.2	72	-19	2.92	4.25	1.58	9	6	16
1910.....	27.2	56	-22	5.55	8.91	3.27	7	5	19
1911.....	31.6	70	-5	3.54	6.38	1.25	8	5	18
1912.....	18.6	57	-35	1.92	3.72	0.47	8	7	16
1913.....	36.5	65	3	4.95	8.90	1.51	9	6	18
1914.....	30.2	81	-27	3.37	5.77	1.40	7	7	17
1915.....	28.3	62	-26	5.56	9.69	2.43	10	6	15
1916.....	34.2	76	-12	2.42	5.33	0.20	9	8	14
1917.....	27.9	69	-18	3.60	6.69	1.06	11	8	12
1918.....	16.2	57	-29	3.51	7.28	1.20	10	8	13
1919.....	32.0	64	-15	2.53	2.10	0.34	14	8	9
1920.....	20.9	59	-23	2.47	5.35	1.00	9	8	14

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	3.0	4.2	6	2.6	1	18
Phillipsburg.....	Delaware.....	.....	.....	.....	.....	.....	.....
Mauch Chunk.....	Lehigh.....	.....	.....	.....	.....	.....	.....
Wilkes-Barre.....	Susquehanna.....	1.9	2.9	3	1.3	6	20
Williamsport.....	Susquehanna.....	.....	.....	.....	.....	.....	.....
Harrisburg.....	Susquehanna.....	.....	.....	.....	.....	.....	.....
Freeport.....	Allegheny.....	.....	.....	.....	.....	.....	.....
West Newton.....	Youghiogheny.....	.....	.....	.....	.....	.....	.....
Greensboro.....	Monongahela.....	10.5	22.0	24	7.6	7	18
Pittsburgh.....	Ohio.....	5.7	12.9	10	3.0	15	22
Beaver Dam.....	Ohio.....	9.7	19.2	12	5.6	8	27

Climatological data for January, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.			Prevailing direction of wind.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.			Pt. cloudy.	Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	22	20.4	-6.9	42	1	-3	3	35	2.63	+0.10	0.86	18.0	11	12	9	10	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	19	24.6	-5.3	44	1†	2	5	39	2.58	-1.03	1.09	11.5	6	4	19	8	w.	Prof. Chas H. Rominger.
Bustleton.....	Philadelphia.....	125																		Experiment Station.
Carlisle.....	Cumberland.....	467	52	23.3	-4.6	46	30	-2	19	39	2.51	-0.63	0.92	6.5	9	13	4	14	nw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	22	20.4	-7.7	42	13	-4	4	32	2.50	-0.87	0.75	8.7	9	16	1	14	w.	H. H. Yetter.
Center Hall.....	Center.....	1,272	21	19.6	-5.8	42	28	-5	2	38	1.24	-1.42	0.54	10.5	6	20	4	7		S. W. Smith.
Clearfield.....	Clearfield.....	1,120	9	20.1	-6.7	46	1	-6	19	36	1.66	-2.61	0.40	23.0	9	10	7	14	ne.	E. W. Hess.
Coatesville.....	Chester.....	380	31	24.0	-6.4	48	30	-2	19	31	2.68	-1.33	0.72	5.2	11	10	10	11	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	3	22.0		50	30	-2	19	37	1.99		0.83	4.3	10	10	17	4	ne.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	31	15.4	-10.4	39	7†	-14	4†	43	2.92	-0.68	0.78	15.1	11	9	8	14	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	366	19																	Jacob Eichelberger.
Everett.....	Bedford.....	1,080	21	2.40	-4.2	47	31	0	3	37	0.75	-2.39	0.18	5.5	9	16	3	12	nw.	H. Floyd Steckman.
Freeland.....	Luzerne.....																			Theo. Reichman.
George School.....	Bucks.....	190	12	23.2	-7.6	44	1	-2	19	30	5.35	+2.50	1.70	5.8	10	22	2	7	nw.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	43	25.6	-3.4	56	30	-1	19	36	2.24	-0.92	0.75	6.2	9	11	8	12	w.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	15	19.0	-7.4	39	1†	-7	19	39	2.58	-1.62	0.82	6.0	10	8	3	20	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	25	20.5	-8.2	43	30	-3	31	27	3.17	-0.62	1.10	9.0	7	16	7	8	nw.	State Sanatorium.
Hanover.....	York.....	600	15	25.3	-7.6	52	30	3	19	34	2.51	-0.59	0.82	4.0	10	12	6	13	nw.	Miss Olive M. Ryder.
Harrisburg.....	Dauphin.....	361	31	23.1	-6.8	50	30	5	19	31	2.10	-1.00	0.81	7.3	10	5	10	16	nw.	U. S. Weather Bureau.
Honesdale.....	Wayne.....	1,150																		George Stiles.
Huntingdon.....	Huntingdon.....	650	31	21.8	-6.8	48	30	-6	4	41	3.10	-0.27	0.97	8.4	8	9	5	17	w.	Prof. W. J. Swigart.
Kennett Square.....	Chester.....	126	27	24.2	-6.8	45	30	1	19	30	3.06	-0.47	0.97	6.0	10	6	14	11	nw.	W. P. Mercer.
Lancaster.....	Lancaster.....	255	16	24.5	-5.1	44	30	1	19	31	1.88	-1.41	0.72	3.3	10	14	6	11	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	21	15.4 ^a	-9.2	44	27 ^a	-19	20 ^a	40 ^a	1.65	-0.45	0.90	18.0	6	12 ^a	3 ^a	15 ^a		C. P. Darling.
Lebanon.....	Lebanon.....	469	30	19.4	-9.6	47	30	-1	19	35	2.19	-1.43	0.90	6.9	8	18	3	10	w.	S. B. Benzing.
Lewistown.....	Union.....	450	44	20.5	-4.9	44	30	-3	4	37	3.07	+0.07	0.96	8.5	7	11	6	14	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	31	18.6	-8.8	39	13	-6	5	38	2.73	-0.60	0.86	15.5	9	5	14	12	w.	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	4	20.8		45	30	-6	19	41	1.94		0.71	6.0	11	8	10	13	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	29	20.7	-7.7	43	1†	-2	31	35	2.16	-1.70	0.89		9	7	11	13	w.	F. C. Wintermute.
Media.....	Delaware.....	103	4	20.0		48	26	-4	4	37	4.93		1.47	3.0	7	14	9	8	nw.	North Springfield Water Co.
Millintown.....	Juniata.....	445	15	21.4	-6.2	42	30†	2	19	36	2.23	-1.11	0.79	6.0	11	8	6	17	nw.	Wellington Smith.
Millford.....	Pike.....	500	16	18.6	-6.4	45	1	-13	19†	41	1.10	-2.03	0.40	10.0	7	13	13	5	w.	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	16	13.2	-9.3	40	24†	-20	31	48	1.50	-1.36	0.50	17.0	8	11	5	15	w.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	17	14.1	-8.8	40	27	-10	31	31	2.23	-1.04	0.60	11.7	11	14	3	14	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	7	17.3		41	30	-12	4	38	1.77		0.70	10.5	5	8	10	13		S. P. Worthington.
Narberth.....	Montgomery.....	300		24.3		48	27†	3	19	33	2.68		0.83	5.5	11	10	4	17	nw.	Charles Decker.
Neshaminy Falls††	Bucks.....	60	3	22.6		46	27†	-6	19	41	2.36		0.92	4.4	9	13	6	12	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	2	20.6		44	27	-2	31	31	1.25		0.20	7.3	8	6	10	15	w.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	47	26.8	-5.9	49	30	5	31	28	2.71	-0.57	0.80	5.9	12	8	7	16	nw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	3	25.6		46	30	5	31	29	2.71		0.78	4.2	10					Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	8																	North Springfield Water Co.
Quakertown.....	Bucks.....	496	32	22.0	-5.0	45	27	0	19	36	2.50	-1.00	1.04	7.9	12	5	13	13	nw.	John E. Benner.
Reading.....	Berks.....	325	47	23.0	-6.9	45	30	3	31	26	2.74	-0.82	0.88	6.0	11	7	8	16	nw.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649		23.7		46	30	1	19	30	2.06		0.67	5.4	12	6	11	14	w.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	23	18.7	-8.5	39	1	-6	31	24	2.79	+0.08	0.70	18.2	13	2	11	18	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	30																	J. M. Boyer.
Shawmont.....	Philadelphia.....	51	23	25.8		44	30	3	19	29	2.33	-0.96	0.55	11.5	10	12	9	10	nw.	W. S. Guiles.
State College.....	Center.....	1,217	31	19.1	-7.2	41	30	-3	3	37	2.89	-0.12	0.92	10.1	10	7	14	10	w.	Prof. Wm. Frear.
Stroudsburg.....	Monroe.....	500	8	19.9		48	27	-8	19	36	2.51		1.00	7.7	9	8	8	15	nw.	J. Clyde Le Bar.
Towanda.....	Bradford.....	754	24	16.6		43	27	-13	20	37	2.02	-0.12	0.68	12.8	10	5	9	17	nw.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	39	12.9	-11.4	42	27	-21	20	40	1.84	-0.77	0.76	17.5	10	18	3	10	nw.	George W. Hill.
West Chester.....	Chester.....	455	64	24.2	-6.0	45	30	3	5	39	3.07	-0.68	0.83	5.0	12	13	4	14	w.	J. C. Green, D. D. S.
Williamsport.....	Lycoming.....	521	29	20.4	-6.9	49	1	-5	3	38	2.45	-0.61	0.78	10.8	10	10	6	15	w.	Jacob April.
York.....	York.....	400	19	24.4	-4.9	45	13	-5	19	28	2.10	-1.05	0.54	5.0	8	4	10	17	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam††.....	Beaver.....	700	5	25.0		47	1†	-3	5	37	2.17	-0.77	0.66	13.4	15	8	0	23	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	2	16.1		38	27	-15	22	44	2.95		0.85	26.9	18	8	10	13	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930		19.0		42	21	-13	4	39	1.99		0.44	15.7	15	12	3	16		Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	8	15.4 ^a		39	30	-20	4†	41	3.02	-0.05	0.60	15.0	9	14 ^a	6 ^a	10 ^a		John Fawcett.
Clarion.....	Clarion.....	1,500	25																	N. A. Gobie.
Claysville.....	Washington.....	1,150	15	24.3	-6.6	50	1	-5	5	36	2.77	-0.94	0.65	5.0	10	5	9	17	w.	E. T. Buchanan.
Derry.....	Westmoreland.....	1,172	22	23.6	-6.8	54	20†	-3	3	42	2.86	-1.16	0.70	1.0	9	12	8	11	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000		18.7		42	1	-7	4	37	2.72		0.60	8.0	9	10	9	12	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	2	23.0		52	21	-6	4	36	2.52		0.73	5.0	11	7	8	16	w.	J. D. Miller.
Franklin.....	Venango.....	1,000	25	17.7	-8.8	41	20	-6	5	44	2.26	-1.43	0.87	7.0	11	9	20	2	nw.	F. E. Dixon.
Gre																				

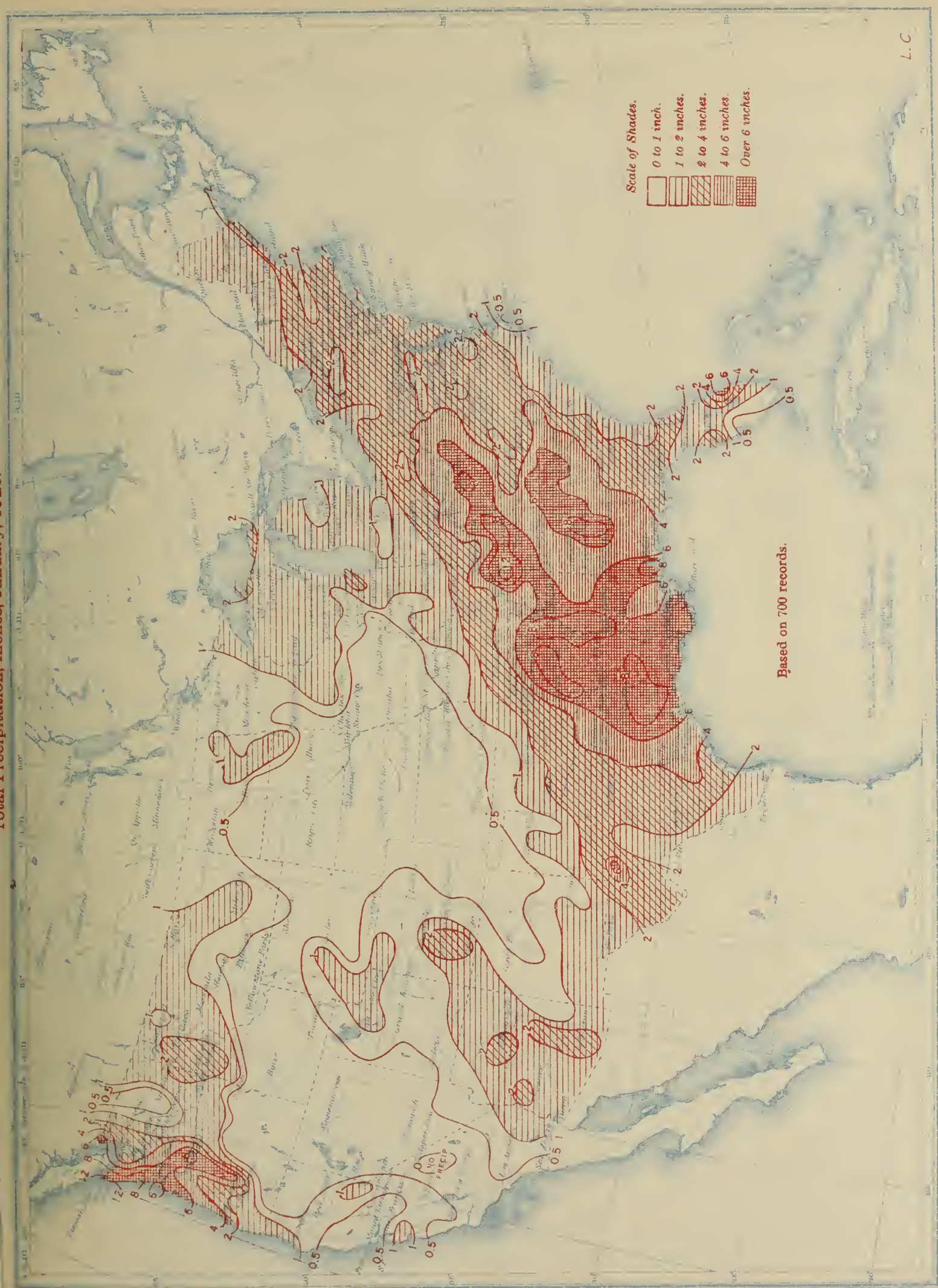
Daily precipitation for January, 1920.

Stations.	Watershed.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh								.11	1.00	.17							.30		.28	.02	.26		.01	.26				.10	T.			2.45	
Altoona	Juniata		T.						.23	.86		T.	T.	T.	.03		.16	.09	.03	.24	.05	.09		.70	.15					T.			2.63	
Ansonia	Pine Creek								.20	.20	.83				.02	.05		.20	.04	.10	.35	.22		.02	.65								2.44	
Arendtsville	Potomac								.20	.67							.20	.04		.15		T.	.15	.60	.18								2.19	
Austin	W. Br. Susq		.30						.20	.05		.17		.19	.08		.25	.30		.51	.50	.10		.08									2.17	
Bellefonte	do.								.60	.85										.51		.10		.12	.06								2.14	
Bethlehem	Lehigh								.47	1.09							.17							.30	.10								2.58	
Blosser	Lower Susq								.20	.90							.21						.18	1.01	.05								2.90	
Browers Lock	Schuylkill	.07							.10	.92							.16	.06		.30	T.	.12	.15	.16	.42			T.					2.46	
Bustleton	Lower Del.																																2.51	
Carlisle	Lower Susq								.32	.92					.01		.24	T.		.18	T.	.10	.26	.22	.26						.05		2.50	
Catawissa	N. Br. Susq								.39	.75		T.					.10			.30	.05		.15	.52	.19								1.24	
Center Hall	Susquehanna								.14	.75						.05		.08	.05	.40				.51									1.66	
Clearfield	W. Br. Susq							T.	.16	.30		.02		.05	.15		.40	.08		.23	T.	.16	.27	.35	.53								2.68	
Coatesville	Lower Del.	.03							.18	.72							.16	.02		.23	T.	.16	.27	.35	.53				.03		.02		1.99	
Colebrook	Lower Susq	T.						T.	.09	.83	T.	T.		T.	T.	T.	.19	.07		.18	T.	.06	.19	.18	.18								3.43	
Cresson	Juniata		.06	.05	.03				.40	.60	.20		.05	.03	.19	.04	.26	.15	.08	.25		.18		.18	.60	.08								2.34
Doylestown	Lower Del.	.02							.14	.87							.40	.16		.20	T.		.20	.29	.46								2.06	
Driftwood	W. Br. Susq				.10				.04	.40			.20	.30			.40	.10		.40	.10		.01	.01									2.92	
Emporium	W. Br. Susq	T.						T.	.35	.78		.06	.05	.30	.10		.10	T.				.20	.18	.70									0.75	
Ephrata	Lower Susq								.16	.10						.18		.02		.17		.02		.05	.03								5.35	
Everett	Juniata			.02																													2.24	
Freeland	Lehigh								.08	.95							.01	T.		1.70	T.	.01	.05	.45	.42	1.60							1.98	
George School	Lower Del.	.08							.14	.75							.15	.13		.14		.10	.30	.33	.20	T.							2.58	
Gettysburg	Potomac								.50	.37	.19						.13			.09	.02	.08	.20	.20		.12				.08			3.99	
Girardville	Schuylkill								.21	.82						.40	.10	.05		.15	.10	.18	.23	.34									2.51	
Gordon	Lower Susq					.06	.05		.31	.72	.26		.15				.65			.95			.15	.35	.21						.13		3.17	
Gouldsboro	Lehigh																.10			.22			.52	.50									2.51	
Grater's Ford	Schuylkill							T.	.70	1.10					T.	T.	T.		.20			.45	T.	.32	.30	.10		T.					3.17	
Hamburg	Schuylkill								.20	.82							.16	.10		.12		.28	.23	.36	.23	.01							2.51	
Hanover	Lower Susq								.40	.48		T.	T.	T.	.01		.38	.04		.26	.02	T.	.30	.15	.06								2.10	
Harrisburg	do.	T.	T.						.10	.88							.15			.08	.02	.03	.02	.01									1.39	
Holtwood	Lower Susq	T.							.32	.97							.16	.10		.42	T.	.15	T.	.82	.15								3.10	
Honesdale	Lackawaxen								.25	.75					.02		.12	.02		1.23		.23		.60	.20								3.42	
Huntingdon	Juniata	T.	T.																														3.06	
Jersey Shore	W. Br. Susq								.16	.97							.16	.10	.10	.13		.28	.10	.57	.53								1.88	
Karlsruhe	do.								.16	.72							.20	.13		.02		.03	.04	.24	.31								1.36	
Kennett Square	Delaware	.12							.05	.55	.12				T.		.11			.16		.04		.11	.17			.05					1.65	
Lancaster	Lower Susq	.03							.35	.90	.02		T.				.33			.25	.04		.29	.28		.08							2.19	
Lansford	Lehigh	T.							.26	.86							.11	.48		.23	.02	.06		.45	.17								3.07	
Lawrenceville	N. Br. Susq						.10		.18	.71	T.	T.			.01		.35			.13	.04	.05	.02	.45	.11	.05							2.49	
Lebanon	Lower Susq								.21	.89							.06	.14		.13	.04	.05	.02	.45	.11	.05							2.73	
Lewisburg	W. Br. Susq								.18	.71	T.	T.			.01		.35			.13	.04	.05	.02	.45	.11	.05							1.94	
Lloyd	Pine Creek								.21	.89							.17	.07		.28	.04		.07	.38	.04								2.16	
Lock Haven	Susquehanna	T.							.90	1.24							1.47			.28			.02	.28	.74								4.93	
Lykens	Lehigh								.25	.75							.03	.01		.20	.03	.10	.07	.55	.19	.01							2.23	
Mauch Chunk	Lower Del.								.10	.15	.05						.40			.20	.05		.05										1.10	
Media	Juniata	T.							.10	.40			.10				.08			.50			.02	.20									1.50	
Mifflintown	Upper Del.								.19	.20	.20			.60	.10		.01	.30	.20	.30				.20	.20	.03							2.23	
Montrose	N. Br. Susq	T.							.23	.53							.06			.25			.70										1.77	
Mount Pocono	Upper Del.								.27	.83							.10	.04		.20	T.	.13	.15	.42	.39	T.		.07	T.				2.68	
Muncy Valley	W. Br. Susq								.20	.20							.12			.11		.11	.26	.28	.39								2.36	
Narberth	Lower Del.	.08							.20	.20							.20			.20	T.		.15	.16	.10								1.25	
Neshaminy	Lower Del.	.09							.12	T.							.14	.02		.21	T.	.25	.34	.30	.46	T.			.01	T.			2.71	
Palmerton	Lehigh		T.						.03	.07							.13			.20		.20	.34	.35	.25	.42							2.71	
Philadelphia (a)	Lower Del.	.12							.01	.26	.59			</																				

Daily temperatures for January, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.		
Atlantic Drainage.																																		
Altoona.....	Maximum...	42	25	11	12	16	28	28	36	38	31	32	28	35	29	20	18	28	12	15	25	38	22	27	30	28	21	30	38	32	41	39	27.9	
	Minimum...	23	2	-3	-2	1	11	22	28	31	21	17	20	15	13	8	9	12	7	2	7	16	10	18	27	9	4	16	29	7	17	4	12.9	
Bethlehem.....	Maximum...	44	39	20	20	25	31	36	37	37	38	35	34	37	40	25	24	24	20	18	33	30	30	33	30	27	42	43	37	44	44	32.3		
	Minimum...	30	10	6	8	2	14	24	32	34	24	22	20	22	15	10	8	12	8	6	12	24	14	20	28	16	10	18	32	18	18	5	16.8	
Bustleton.....	Maximum...	40	32	17	22	20	31	35	35	40	42	38	34	42	35	22	22	25	22	20	25	34	30	31	33	30	18	35	40	30	46	42	31.2	
	Minimum...	23	7	3	4	6	8	24	32	33	28	23	26	18	16	13	10	10	11	-2	10	18	18	18	28	16	8	14	28	12	12	3	15.4	
Clearfield.....	Maximum...	46	33	26	22	23	30	31	38	36	32	31	29	30	29	23	18	24	14	16	21	35	25	32	32	30	33	39	37	37	43	36	30.0	
	Minimum...	13	3	-3	-5	-3	0	24	31	30	20	16	21	18	10	8	5	11	7	-6	1	21	6	20	21	5	-1	11	22	1	10	0	10.2	
Euporium.....	Maximum...	38	17	10	15	18	29	39	39	37	28	30	28	34	22	19	17	21	12	15	29	33	25	33	34	17	24	38	36	29	35	24	26.6	
	Minimum...	12	-8	-3	-14	-13	-4	16	30	20	18	19	19	19	8	3	-4	8	-2	-12	-14	4	-14	22	15	-1	-13	11	8	-6	5	-3	4.1	
Everett.....	Maximum...	45	35	20	20	28	34	36	37	42	42	44	37	44	37	33	26	29	25	20	28	35	32	31	33	32	20	45	48	32	56	45	34.5	
	Minimum...	24	10	4	6	5	9	26	32	34	27	23	25	18	18	13	14	12	12	-1	11	16	18	20	30	18	10	10	28	15	20	9	16.6	
Gettysburg.....	Maximum...	39	29	13	12	13	23	33	37	35	34	33	33	39	36	22	19	16	18	13	15	30	26	30	29	29	14	34	34	27	37	37	27.1	
	Minimum...	22	5	2	-5	-1	-3	18	32	22	15	22	18	14	9	4	9	8	-7	1	14	10	19	29	9	0	13	24	1	6	-2	11.0		
Gordon.....	Maximum...	41	22	15	18	20	31	37	36	39	34	36	31	41	28	25	15	24	19	20	20	36	25	32	34	30	16	36	39	27	50	29	29.2	
	Minimum...	21	11	6	8	7	14	26	33	30	27	27	27	25	14	14	10	10	10	5	12	20	18	21	30	14	10	16	23	15	19	5	17.0	
Honesdale.....	Maximum...	42	35	20	19	21	35	38	42	40	49	39	32	35	40	37	24	24	22	23	23	30	24	34	35	33	28	39	41	34	44	39	32.9	
	Minimum...	34	11	11	14	4	8	32	33	25	22	23	19	19	16	12	13	17	1	7	16	14	17	22	16	10	15	24	13	14	8	16.1		
Lebanon, §§.....	Maximum...	40	24	15	18	20	30	36	38	38	32	35	32	40	22	25	15	26	20	19	26	35	24	33	33	23	21	39	38	28	47	14	25.4	
	Minimum...	24	9	4	5	4	14	26	32	25	22	26	21	19	12	8	8	9	-1	7	9	16	16	23	14	6	5	19	11	12	6	13.4		
Lock Haven.....	Maximum...	38	30	13	14	18	26	31	34	35	36	33	33	39	32	23	20	16	14	14	23	27	23	32	32	23	20	36	36	31	37	36	27.6	
	Minimum...	14	-3	1	-3	-6	4	21	22	30	23	20	22	14	9	5	-3	0	-3	-5	12	3	17	22	8	-2	14	31	4	8	-2	9.6		
Mauch Chunk.....	Maximum...	43	29	13	17	22	32	32	37	37	36	33	32	40	34	22	13	24	16	14	16	32	22	30	32	27	16	43	40	25	41	33	28.5	
	Minimum...	28	7	2	5	4	9	20	31	32	21	19	22	21	13	10	4	8	9	0	15	16	19	26	8	3	13	19	9	10	-2	12.9		
Midlinton.....	Maximum...	30	30	15	14	16	25	33	35	37	39	39	33	34	33	32	19	15	15	15	17	26	25	31	33	32	16	33	33	29	42	42	28.0	
	Minimum...	24	7	4	5	8	23	31	32	29	23	29	17	14	13	9	9	12	2	9	15	13	15	15	14	4	16	29	18	7	6	14.8		
Milford.....	Maximum...	45	36	35	19	28	34	33	37	38	37	33	31	35	36	16	22	20	19	15	32	25	29	30	29	26	40	39	38	40	33	31.2		
	Minimum...	19	20	-1	-5	-3	2	16	25	22	14	12	14	6	18	2	-5	0	5	-13	-13	5	-5	15	20	5	-6	7	12	-3	6	-7	5.9	
Montrose.....	Maximum...	35	33	14	14	18	25	29	35	35	35	35	28	27	34	27	16	20	22	12	20	15	28	22	30	20	47	18	40	35	16	38	28	26.3
	Minimum...	18	-10	-10	-7	-12	-8	11	23	21	12	12	14	10	0	-5	-8	-17	-7	-10	-13	-10	-12	10	15	-3	-13	5	7	0	4	-20	-0.1	
Muncy Valley.....	Maximum...	38	32	25	15	19	25	32	37	36	36	30	29	35	27	22	14	21	16	14	18	26	30	34	35	-4	18	36	35	18	41	30	27.4	
	Minimum...	26	13	9	-12	-7	-5	13	30	29	20	12	12	10	11	2	-1	11	-7	-15	-8	12	-2	22	21	5	-5	15	16	-4	8	-8	7.2	
Narberth.....	Maximum...	45	28	18	23	23	34	38	38	36	35	37	32	42	36	28	19	30	24	19	22	35	28	33	34	31	18	48	39	29	48	38	31.9	
	Minimum...	28	12	6	8	5	13	24	31	33	25	24	26	21	15	12	10	13	9	3	10	20	19	22	31	14	8	15	23	11	20	8	16.7	
Philadelphia.....	Maximum...	46	32	19	23	25	35	39	42	41	38	38	35	43	31	29	20	32	26	23	38	30	35	36	29	23	49	43	29	49	49	33	33.5	
	Minimum...	31	16	10	11	9	18	29	36	34	27	29	30	25	18	17	11	16	14	13	14	25	20	26	29	15	11	23	20	16	24	5	20.1	
Reading.....	Maximum...	41	23	14	18	19	32	37	37	39	32	36	32	41	28	25	16	26	20	18	21	34	22	32	34	28	17	41	38	26	45	27	29.0	
	Minimum...	23	11	6	9	6	16	28	35	32	26	27	27	26	14	14	10	12	10	7	12	19	19	21	28	11	9	15	18	13	23	3	17.1	
Seranton.....	Maximum...	39	20	12	11	17	26	35	39	38	30	32	28	38	23	17	15	24	15	15	28	32	33	33	31	18	24	36	35	21	38	14	26.0	
	Minimum...	20	7	1	5	3	8	23	31	22	19	23	20	22	8	3	1	9	5	4	4	9	5	23	18	5	3	21	12	10	14	-6	11.4	
Selinsgrove.....	Maximum...	42	37	22	21	24	34	38	37	36	40	39	45	38	29	23	29	24	22	23	35	30	32	33	35	18	42	34	43	38	33	31.2		
	Minimum...	23	10	5	4	6	6	26	31	34																								

Total Precipitation, 1900-1909



Stations.	Watershed.	Day of month.																																Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Creekside.	Allegheny																																	
Davis Isl. Dam|||.	Ohio.		.01	T.	T.				T.	.53	1.04	T.	T.	T.	T.	.03	.03	.32	.02	.03	T.	.43		.12	.32	T.					.01			2.8
Derry.	Conemaugh	T.							.53	.70			.05				.22	.17	T.	.05	.09	.39	T.	.63	.20									2.8
Ebensburg	Conemaugh	T.	T.	T.					T.	.60	1.4	T.	T.		.17	.11		.17	T.	.80	T.			.63	.40	.16					T.			2.7
Edinboro	Allegheny	.02	.14	.05					T.	.53			.10		.07	.09	.14	.10	.07	.15	.02			.37	.17						T.			2.0
Elk Lick	Youghiogheny.	T.	T.					.04	.30	.73		T.			.09	.18	.20	.03	T.	T.	.22	.20	.35	.18		T.								2.5
Falls Creek.	Allegheny								.23	1.11		.04		.10	.04		.06	.13		.19				.48	.35						.05			2.7
Franklin|||.	Allegheny								.10	.87			.05	.04	T.	.02	T.	.26		.05	.10	.13		.62						T.				2.2
Freeport.||||.	Allegheny		T.						.28	1.05	T.		.05		T.		.04	.03	.47	.03	.07	.03	.34		.67					T.				2.7
Greensburg|||.	Monongahela							T.	.04	.40				T.		.04	.05	.10		.06			.10	.70	.70			T.						1.7
Greensburg.	Youghiogheny.	.03	.03	T.	.02				.03	.52	.78	.01	.03	T.	.03	.07	.03	.25	.15	.04	.11	.10	.33	.10	.53	.12	.01				.04			3.3
Greenville.	Beaver.																																	
Grove City	Youghiogheny.	T.	T.						.04	.15	.68	T.	.10	.02	.03	.06	.03	.13	.07	.02	.09	.08	.19		.38	.08	T.				.01			2.1
Herrs Isl. Dam|||.	Ohio.				T.	T.			T.	.52	.85	T.	T.	.03	.02	T.	.04		.06	.32	T.	.05	.02	.22		.14	.32	.01			T.			2.6
Indiana.	Conemaugh	T.	.10						.05	.62	1.06		.10				.25	.53	.05	.10	.57			.10	.13						.05			2.7
Irwin.	Youghiogheny.				T.	T.			T.	.78	T.	.04	T.		T.	T.	.20	.11	T.	.07	.05	.30	.02	.60	T.		T.			T.				2.1
Johnstown	Conemaugh	.01	.09	T.	.02				.02	.44	.65	T.	.05	.02	.05	.04	.02	.25	.23	.04	.21	.15	.23	.15	.62	.12		.03			.05			3.4
Ketner	Allegheny								.05	.12	.72		.05	.04	.20	.16		.10	.11	.04	.17	.07	.26		.24	.30				.04				

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

05
NP
U. S. DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

UNIVERSITY OF ILLINOIS LIBRARY
APR 26 1920

CLIMATOLOGICAL DATA

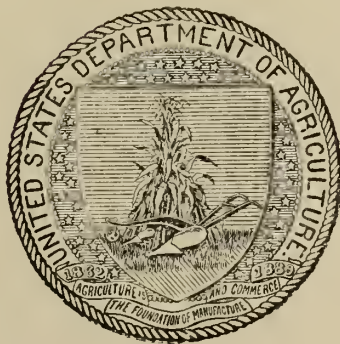
PENNSYLVANIA SECTION

FEBRUARY, 1920.

BY

GEORGE S. BLISS

METEOROLOGIST



PHILADELPHIA, PA.
WEATHER BUREAU OFFICE
MARCH 29, 1920.

Departure of the Mean Temperature from the Normal, February, 1920.



Shaded portions show excess (+)
Unshaded portions show deficiency (-).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

VOL. XXV. PHILADELPHIA, PA., FEBRUARY, 1920. No. 2.

GENERAL SUMMARY.

The conditions were very changeable, and there was an unusual amount of blustery and disagreeable weather. The most severe storm of the winter occurred from the 4th to the 6th inclusive. In the southeastern counties there was a heavy fall of hard snow and sleet that delayed the operation of trains for several days, and completely blocked motor traffic for a week or more. It was of such a character as to make it very difficult to remove from the tracks and highways, and where it was piled up along the sides of the roads it soon settled down into solid ice that remained until the end of the month. The highways were more or less icy and dangerous to travel for a period of three weeks. The roofs of many buildings were damaged or ruined by the weight of the heavy covering that accumulated during the storm. The snowfall for the month was unusually heavy, especially in the eastern counties. The snow covering on the winter grains protected them from the changeable temperatures and kept them in good condition. Stock was kept housed most of the time, but was generally reported as doing well. The changeable temperatures made it difficult to ship or handle perishable goods, and the losses were heavy. There was much foggy weather, especially in the eastern counties, but the sunshine was only slightly below the normal.

TEMPERATURE.

The mean temperature for the State, as recorded at 74 stations, was 25.6°, or 1.7° below the February normal, a deficiency being recorded at practically all stations. Beyond the statement of averages it is difficult to describe the temperature conditions, as no description could be applicable to the whole State at any definite time. For example, the lowest temperature for the month was recorded at many stations on the 1st, this condition being in the central and eastern portions of the State, while the highest temperature for the month was recorded at many western stations on the 2d. The warm period that culminated on the 11th and 12th, and the cold waves on the 15th and 16th and again on the 26th and 27th were fairly general conditions. The highest temperature recorded during the month was 62° at Uniontown on the 2d, and the lowest was -20° at Montrose on the 1st. The highest monthly mean was 31.4° at Philadelphia, and the lowest was 17.7° at Montrose.

PRECIPITATION.

The average precipitation for the State, as reported from 123 stations, was 2.44 inches, or 0.25 inch less than the February normal. There was a light to moderate excess at many stations in the Susquehanna basin, and a deficiency at most places in the remainder of the State. The greatest monthly amount was 5.23 inches at Somerset, and the least was 0.70 inch at Emporium. The average snowfall was 18.3 inches, the heaviest being 56.0 inches at Gordon, and the least 5.1 inches at Sharon. The snowfall was heavy in all of the eastern counties and in the mountain districts, while in the northern counties there was generally less than the February normal.

BAROMETRIC PRESSURE AND WINDS.

Stations.	In inches, reduced to sea level.					Total movement, in miles.	Velocity, in miles per hour.			
	Average.	Highest.	Date.	Lowest.	Date.		Average.	*Highest.	Direction.	Date.
Erie.....	30.04	30.62	4	29.52	17	10,311	14.8	43	se.	1
Harrisburg.....	30.04	30.96	1	29.56	25	5,720	8.2	26	nw.	15
Philadelphia.....	30.02	30.85	1	29.34	7	7,724	11.1	33	nw.	25
Pittsburgh.....	30.06	30.64	1	29.62	17	9,268	13.3	40	w.	15
Reading.....	30.03	31.02	1	29.54	25	6,399	9.1	23	w.	13
Scranton.....	30.02	30.99	1	29.64	25	5,968	8.6	27	sw.	27

* For any five-minute period.

SUNSHINE AND HUMIDITY.

Stations.	Sunshine.					Humidity.		Fog.	
	Total hours of Sunshine	Number of hours possible.	Percentage of possible.	Number of days with.		Average per cent.		Number of days with.	
				80 per cent or more.	20 per cent or less.	8 a. m.	8 p. m.	Light fog.	Dense fog.
Erie.....	132.9	296.8	45	5	7	80	78	1	0
Harrisburg.....	147.7	311.0	47	5	5	74	67	2	2
Philadelphia.....	150.6	311.0	48	5	5	74	68	6	4
Pittsburgh.....	107.3	309.5	35	2	12	80	70	3	1
Reading.....	153.0	311.0	49	8	8	75	69	7	2
Scranton.....				1	17	86	69	10	2

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	28.4	63	-31	2.50	4.97	0.89	7	11	11
1889.....	23.0	60	-27	1.96	3.87	0.97	7	9	12
1890.....	37.0	79	0	4.32	6.39	2.28	6	8	14
1891.....	34.8	70	-7	4.61	8.29	2.13	6	7	14
1892.....	31.6	62	-18	1.75	4.48	0.43	7	7	15
1893.....	27.3	60	-16	5.92	9.28	2.32	6	8	14
1894.....	27.6	64	-24	3.53	5.59	1.62	8	9	11
1895.....	20.2	60	-26	1.22	3.47	0.17	10	10	8
1896.....	29.4	65	-21	4.90	9.08	1.94	9	7	13
1897.....	30.6	67	-14	3.28	6.67	1.04	7	8	13
1898.....	29.4	72	-16	2.23	4.05	0.96	8	8	12
1899.....	22.7	67	-39	4.05	10.22	0.98	8	7	13
1900.....	27.1	81	-17	4.22	7.75	1.00	8	6	14
1901.....	21.7	57	-22	0.96	2.75	0.27	10	9	9
1902.....	23.9	64	-24	3.99	7.43	0.45	9	7	12
1903.....	30.5	68	-17	4.49	6.13	1.80	10	7	11
1904.....	21.8	68	-27	2.41	4.80	0.92	10	7	12
1905.....	20.8	59	-25	1.70	2.83	0.44	10	8	10
1906.....	28.0	79	-21	1.70	3.80	0.36	12	7	9
1907.....	22.8	56	-20	1.91	4.37	0.66	12	7	9
1908.....	24.8	64	-29	4.65	8.15	2.51	10	7	12
1909.....	35.8	73	-9	4.84	9.86	2.40	6	7	15
1910.....	26.6	65	-22	3.59	5.39	1.41	9	7	12
1911.....	31.0	66	-8	2.27	3.76	0.85	7	6	15
1912.....	23.7	69	-27	2.20	4.05	0.37	11	8	10
1913.....	27.4	67	-9	1.84	4.61	0.88	12	5	11
1914.....	21.8	65	-27	2.78	6.20	1.30	11	6	11
1915.....	33.3	73	-9	3.90	6.95	1.85	9	5	14
1916.....	25.7	67	-22	3.08	5.86	1.30	8	7	14
1917.....	25.6	68	-29	1.46	3.37	0.35	9	9	10
1918.....	28.2	69	-34	2.46	4.82	0.55	10	8	10
1919.....	32.0	66	-7	2.23	4.27	1.03	12	6	10
1920.....	25.6	62	-20	2.44	5.23	0.70	9	8	12

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.		Highest stage.	Date.	Lowest stage.		Date.	Flood stage.
		Mean.	Highest.			Mean.	Highest.		
Port Jervis.....	Delaware.....	3.8	3.9	8	3.6	1	18		
Phillipsburg.....	Delaware.....	.....	.....	.....	.....	.....	.....	.....	.....
Mauch Chunk.....	Lehigh.....	.....	.....	.....	.....	.....	.....	.....	.....
Wilkes-Barre.....	Susquehanna.....	3.1	4.1	27	2.9	7	20		
Williamsport.....	Susquehanna.....	1.7	2.5	16	1.3	29	20		
Harrisburg.....	Susquehanna.....	4.6	4.8	20	4.5	9	17		
Freeport.....	Allegheny.....	.....	.....	.....	.....	.....	.....	.....	.....
West Newton.....	Youghiogheny.....	.....	.....	.....	.....	.....	.....	.....	.....
Greensboro.....	Monongahela.....	9.4	13.2	24	7.8	3	18		
Pittsburgh.....	Ohio.....	5.8	7.9	24	3.0	28	22		
Beaver Dam.....	Ohio.....	8.9	13.4	24	5.6	28	27		

Climatological data for February, 1920.

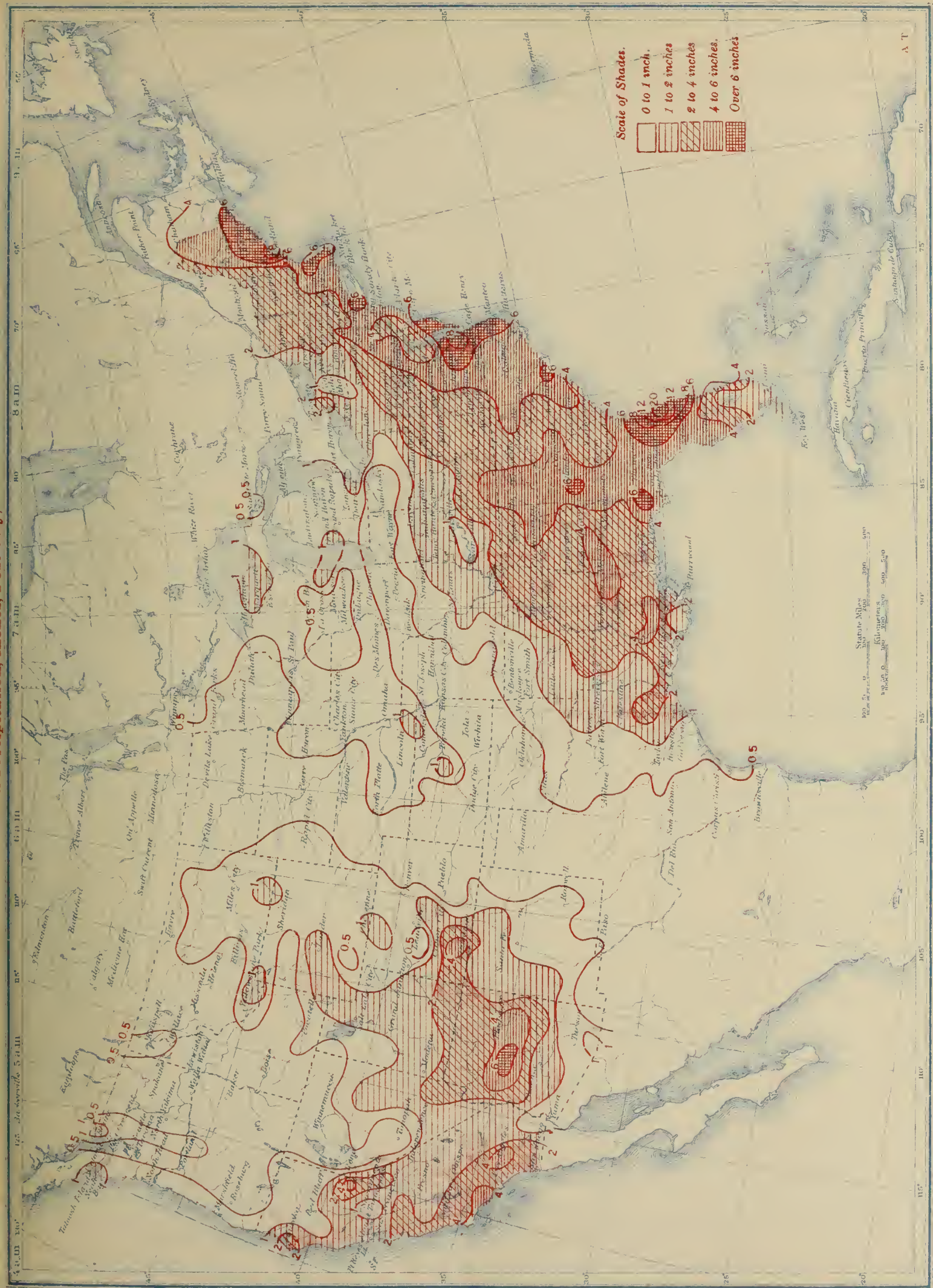
Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.		Cloudy.	Prevailing direction of wind.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	22	24.6	-1.2	45	2†	-1	16	37	2.05	-0.08	0.55	41.0	10	11	8	10	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	19	29.4	-0.4	50	18†	-6	1	36	.....	.....	.....	23.0	.....	4	22	3	w.	Prof. Chas. H. Rominger.
Bustleton.....	Philadelphia.....	125	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Experiment Station.
Carlisle.....	Cumberland.....	467	52	27.3	-2.1	44	14	0	1	31	5.00	+2.07	1.75	42.0	12	10	5	14	nw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	22	26.4	-2.7	50	14	-6	1	39	3.00	+0.30	1.54	26.5	11	10	4	15	nw.	H. H. Yetter.
Center Hall.....	Center.....	1,272	21	24.4	-1.5	45	18	-3	1	39	1.78	-0.57	0.56	20.5	8	10	14	5	.....	S. W. Smith.
Clearfield.....	Clearfield.....	1,120	9	26.2	-0.6	51	22	-3	20	40	0.91	-2.01	0.32	23.0	11	9	10	10	nc.	E. W. Hess.
Coatesville.....	Chester.....	380	31	29.1	-0.8	51	18	-2	1	27	4.13	0.00	1.35	19.2	14	10	10	9	nw.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	3	27.6	.....	47	14	-3	1	27	3.91	.....	.....	16.3	11	9	6	14	nw.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	31	21.8	-2.9	46	14	-13	20	43	0.70	-2.35	0.20	7.0	5	6	7	16	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	366	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacob Eichelberger.
Everett.....	Bedford.....	1,080	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. Floyd Steckman.
Freeland.....	Luzerne.....	.....	.....	.....	.....	50	3	-10	16	34	3.52	.....	1.28	39.5	11	4	7	18	nw.	Theo. Reichman.
George School.....	Bucks.....	190	12	28.3	-1.4	50	18†	-4	1	28	3.26	+0.19	0.81	10.4	10	15	4	10	nw.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	43	29.8	-0.5	54	11	3	1	35	3.66	+0.86	1.09	30.5	12	10	8	11	lw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	15	24.0	-1.3	45	18	-9	1†	40	4.79	+1.36	1.44	56.0	12	13	5	11	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	25	25.0 ^a	-3.8	47	18	-2	1	28	2.77	-0.67	0.55	22.0	11	17	8	4	nw.	State Sanatorium.
Hanover.....	York.....	600	15	29.2	-2.5	50	18	3	1	29	2.96	+0.23	1.21	.....	10	12	7	10	w.	Miss Olive M. Ryder.
Harrisburg.....	Dauphin.....	361	31	28.2	-0.8	46	16	-1	1	25	4.23	+1.43	2.59	21.0	15	6	5	18	nw.	U. S. Weather Bureau.
Ifonesdale.....	Wayne.....	1,150	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	George Stiles.
Huntingdon.....	Huntingdon.....	650	31	27.0	-1.4	51	14	-3	1	36	3.05	+0.21	0.89	26.1	10	7	6	16	w.	Prof. W. J. Swigart.
Kennett Square.....	Chester.....	126	27	28.6	-1.8	47	18	0	1	24	2.54	-1.15	.....	9.0	10	5	17	7	nw.	W. P. Mercer.
Lancaster.....	Lancaster.....	255	16	29.2	-0.6	50	18	0	1	27	1.77	-0.94	0.70	13.8	9	12	10	7	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	21	21.8	-1.2	49	2	-15	1	39	0.85	-1.04	0.20	10.0	7	10	2	17	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	30	25.7	-3.0	48	18	-4	1	33	5.03	+1.59	2.36	20.9	8	13	4	12	w.	S. B. Benzing.
Lewisburg.....	Union.....	450	44	25.8	0.0	46	14	-5	1†	39	2.86	+0.05	1.00	25.1	7	6	12	11	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	31	25.6	-1.5	45	14	-5	1	35	2.72	-0.10	0.70	22.0	9	3	17	9	w.	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	4	26.4	.....	49	18	-8	1	35	3.84	.....	1.43	24.5	11	8	14	7	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	29	25.6	-1.4	46	14†	-8	1	32	3.50	-0.43	1.06	19.0	10	11	6	12	w.	F. C. Wintermute.
Media.....	Delaware.....	103	4	25.0	.....	49	2†	3	15	31	2.30	.....	0.80	5.8	10	14	5	10	.....	North Springfield Water Co.
Millintown.....	Junata.....	445	15	25.8	-0.9	44	18	-1	1†	32	2.99	+0.69	1.65	21.5	10	4	9	16	nw.	Wellington Smith.
Millford.....	Pike.....	500	16	23.2	-0.6	47	18	-19	1	43	2.00	-1.03	1.20	20.0	5	10	14	5	w.	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	16	17.9	-2.4	42	14	-20	1	37	1.94	-0.20	0.30	29.0	10	10	3	16	w.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	17	18.2	-2.5	45	3†	-15	1	34	2.87	-0.01	1.10	28.6	11	7	6	16	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	7	21.8	.....	45	14	-15	27	39	1.76	.....	0.47	16.4	8	13	3	13	.....	S. P. Worthington.
Narberth.....	Montgomery.....	300	.....	29.0	.....	50	18	0	1	25	3.69	.....	0.93	12.3	12	11	8	10	nw.	Charles Decker.
Neshaminy Falls I.....	Bucks.....	60	3	27.0	.....	53	3	-4	1	38	3.57	.....	1.56	10.0	13	15	3	11	nw.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	2	25.5	.....	47	18	-8	1	31	1.54	.....	0.39	19.2	10	11	6	12	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	47	31.4	-1.6	51	18	2	1	29	3.67	+0.50	1.64	11.7	13	7	12	10	nw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	3	30.3	.....	50	18	2	1	22	3.06	.....	1.00	8.7	10	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	8	30.4	.....	48	18	2	2	36	3.22	.....	0.82	16.9	9	11	12	6	nw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	32	26.2	-2.0	49	18	-7	1	27	3.92	+0.15	1.28	17.8	10	11	9	9	nw.	John E. Benner.
Reading.....	Berks.....	325	47	28.6	-1.4	52	18	-2	1	25	3.03	-0.56	1.17	10.0	12	6	8	15	nw.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	.....	29.1	.....	51	18	-1	1	26	3.12	.....	1.50	18.8	12	6	12	11	w.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	23	24.8	-0.7	46	14	-5	1	29	4.76	+1.78	1.83	24.5	14	2	10	17	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. M. Boyer.
Shawmont.....	Philadelphia.....	51	23	30.4	.....	49	18	0	1	24	2.67	-0.58	0.75	.....	11	5	16	8	nw.	W. S. Guiles.
State College.....	Center.....	1,217	31	24.0	-1.5	46	14	-4	1	33	2.76	-0.07	1.01	26.9	11	7	8	4	w.	Prof. Wm. Frear.
Stroudsburg.....	Monroe.....	500	8	25.2	.....	47	14†	-12	1	34	3.13	.....	0.98	24.5	10	10	10	9	w.	J. Clyde Le Bar.
Towanda.....	Bradford.....	754	24	22.1	-1.5	47	14	-14	1	38	1.30	-0.64	0.39	13.0	9	10	5	14	nw.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	39	19.6	-5.0	47	2	-16	1	47	0.77	-1.64	0.23	10.3	8	20	7	2	w.	George W. Hill.
West Chester.....	Chester.....	455	64	28.4	-2.4	49	18	-2	1	34	3.30	-0.54	1.10	.....	10	12	6	11	w.	J. C. Green, D. D. S.
Williamsport.....	Lycoming.....	521	29	26.2	-0.2	44	18	-5	1	27	2.15	-0.43	0.75	16.0	10	13	8	8	se.	Jacob April.
York.....	York.....	400	19	29.2	-0.4	50	18	2	1	30	3.08	+0.03	0.90	13.0	9	10	8	11	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam I.....	Beaver.....	700	5	29.0	.....	50	2	2	16	31	1.52	-0.85	0.37	7.8	15	7	0	22	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	2	22.3 ^a	.....	51	2	-11	20	38	1.46	.....	0.28	12.5	16	9	4	14	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	.....	26.0	.....	48	23	0	16	32	1.39	.....	0.50	7.6	7	12	8	9	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	8	20.5 ^a	.....	45 ^b	21	-18 ^b	20	48	2.30	-0.14	0.70	16.0	9	13 ^b	10 ^b	4 ^b	.....	John Fawcett.
Clarion.....	Clarion.....	1,500	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	N. A. Goble.
Claysville.....	Washington.....	1,150	15	28.2	-1.6	60	2†	0	16	34	1.88	-0.72	0.54	5.5	9	6	10	13	w.	E. T. Buchanan.
Derry.....	Westmoreland.....	1,172	22	26.6	-1.5	60	2	0	16	37	3.20	+0.19	0.95	16.5	10	10	8	11	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	.....	23.2	.....	55	2	-3	16	46	2.60	.....	0.65	16.0	10	11	12	6	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	2	24.3	.....														

Daily precipitation for February, 1920.

Stations.	Watershed.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh				.23	2.01	.52	.02			.11			.18		.31							.21										3.59	
Altoona	Juniata				.55	.29	.10				.15			.13		.18			.10			.32		.16									2.05	
Ansonia	Pine Creek						.10									.48			.03	.27			.10										1.08	
Arendtsville	Potomac																																	
Austin	W. Br. Susq.																																	
Bellefonte	do.				1.20	.60					.11			.13					.56			.52						.22					3.34	
Bethlehem	Lehigh																																	
Bloersville	Lower Susq.					1.85	.10				.10		.05			.15						.45			.05								2.75	
Browers Lock	Schuylkill				.80	1.10	.55							.27	.32							.23						.12					3.39	
Bustleton	Lower Del.																																	
Carlisle	Lower Susq.	T	T		1.75	1.50	.18				.18			T	.40	.22			.08			.38	.07	.19						.04	.01		5.00	
Catawissa	N. Br. Susq.				.80	.74	.20				.03	.05		.36	.15	.26			.12			.27	.02										3.00	
Center Hall	Susquehanna				.56	.36					.03			.12		.10					.22		.11	.28									1.78	
Clearfield	W. Br. Susq.				.11	.32					.02				.04				.03				.10	.02	.08			.02	.15	.02			0.91	
Coatesville	Lower Del.				1.35	1.15	.33	.01			.18		.02	.39	.32							.12	.08	.05	.06	.01							4.13	
Colebrook	Lower Susq.	T	T	T	*	2.07	.21				T	.10		T	.35	T	.53					.41	.09	.05	.09					T	.01		3.91	
Cresson	Juniata				.60	1.72	.20	.12			.04	.17		.12		.45	.08			.10	.16		.40		.15		.05	.08	.05			.20	4.69	
Doylestown	Lower Del.					*	2.35				.13			.30								.24		.15		.05							3.07	
Driftwood	W. Br. Susq.				.10	.10					.20			.02						.01		.20											0.63	
Emporium	W. Br. Susq.					.20					.10																						0.70	
Ephrata	Lower Susq.																																	
Everett	Juniata																																	
Freeland	Lehigh		.01		1.02	.64	.22				T	.02		.14	T	1.28						T	.10		.03	.04				.02	T		3.52	
George School	Lower Del.				.72	.81	.63				.05			.34		.23							.34		.08	.05					.05		3.26	
Gettysburg	Potomac	T			1.09	.93	.16				.12			T	.40			.10			.06		.34	.29	.03	.10							3.66	
Girardville	Schuylkill				.82	.70	.16						.11	.25	.12	.26			.09				.10		.06					.01			2.68	
Gordon	Lower Susq.				1.44	.98	.10				.06		.33			.68						.05	.60	.40	.03	.10							4.79	
Gouldsboro	Lehigh		.20			1.86	.35	1.53	.15	.36		.12	1.15	.45	.27							.12	.07				.29		.12				7.19	
Grater's Ford	Schuylkill				1.20	.38	.36				.12																						2.35	
Hamburg	Schuylkill				.75	.36	.38				.11			.31	.25	.04							.30	.10	.16					.01			2.77	
Hanover	Lower Susq.				1.21	*	.38				.06			.23		.61							.24	.24		.06							2.96	
Harrisburg	do.	T		2.12	.96	.05			T	T	.05		.02	.18	.15	.01		.03				.56		.10									4.23	
Holtwood	Lower Susq.				.12	.62	.20				.07			.26	T	.10							.06		.16								1.59	
Honesdale	Lackawaxen																																	
Huntingdon	Juniata				.70	.89	.06				.18			.19		.30				.04		.38		.18						.13			3.05	
Jersey Shore	W. Br. Susq.					.95	.06				.10			.12		.20				.04	.17		.18	.07	.24								2.13	
Karlsruhe	do.					.65																											1.15	
Kennett Square	Delaware				*		1.50				.22			.30		.20							.17							.15			2.54	
Lancaster	Lower Susq.				.03	.70	.20				.10			.28									.20	.10		.11				.05			1.77	
Lansford	Lehigh	T			.20	.47	.22				.13			.11	.06		.19								.20	.13							1.75	
Lawrenceville	N. Br. Susq.					.20	.15			.05				.10						.05	.10				.20	.13							0.85	
Lebanon	Lower Susq.				.57	2.36	.22				.07			.21		.78							.69		.13								5.03	
Lewisburg	W. Br. Susq.	T			.30	1.00					.06			.31																			2.86	
Lloyd	Pine Creek				.30	.70								.06		.21			.09	.04			.50		.13								0.95	
Lock Haven	W. Br. Susq.				.30	.70					.11			.06		.21							.40		.30								2.72	
Lykens	Susquehanna	T			.98	1.43	.23				T	.02		.32		.38					.27		.16	.17	.02	.05							3.84	
Mauch Chunk	Lehigh				.20	1.06	.38				.22			.28		.34							.27	.05	.15	.05							3.50	
Media	Lower Del.				.25	.18	.05			.80	.05			.34									.24		.22	.12					.05		2.30	
Mifflintown	Juniata				.74	1.05	.08				.06			.29		.11							.17	.28	.10		.11						2.99	
Milford	Upper Del.				1.20	.40								.20																			2.00	
Montrose	N. Br. Susq.					.30	.15			.02				.25		.30							.02		.20		.20						1.94	
Mount Pocono	Upper Del.		.04		.20	1.10	.02				.30			.45		.20								.40	.04	.12		.20				.10		2.87
Muncy Valley	W. Br. Susq.					.47	.08				.06			.19		.47			.17				.16		.16								1.76	
Narberth	Lower Del.	T			.92	.93	.54	.05			.18			.31		.14							.13	.24	.03	.16					.06		3.69	
Neshaminy	Lower Del.				.25	1.56	.44	.14			.12	.06		.19	.24	.81			.08				.32		.13						.03		3.87	
Palmerston	Lehigh		.02	T	.20	.39	.12				.10			.07	.11	.19							.20		.14								1.54	
Philadelphia	Lower Del.	T		T	1.34	.66	.50				.19		.01	.39	.05	.04							.30	.05	.06	.04								

Daily temperatures for February, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Atlantic Drainage.																																
Altoona.....	Maximum	22	45	42	37	26	29	30	29	33	36	38	37	36	45	43	16	41	39	31	31	27	38	35	34	25	19	17	30	30	32.4	
	Minimum	2	13	32	24	20	22	20	23	24	29	23	20	31	21	6	-1	6	31	8	4	14	20	25	25	15	7	2	3	19	16.9	
Bethlehem.....	Maximum	30	39	39	39	35	34	39	39	35	43	43	43	42	48	48	36	37	50	50	33	35	43	42	39	35	31	24	31	35	38.5	
	Minimum	-6	20	24	25	20	26	28	22	24	28	23	21	28	23	19	5	14	28	28	11	18	27	26	30	18	11	4	14	28	20.2	
Bustleton.....	Maximum																															
	Minimum																															
Carlisle.....	Maximum	16	33	38	38	32	38	38	36	38	40	40	40	38	44	42	18	35	43	38	36	34	40	37	39	32	27	23	33	35	35.2	
	Minimum	0	15	25	25	25	26	27	28	28	28	24	23	32	16	15	4	7	22	22	5	22	22	28	32	18	13	5	2	24	19.4	
Clearfield.....	Maximum	31	47	40	38	32	40	38	38	36	39	43	42	39	48	40	18	39	39	32	34	30	51	42	44	29	21	20	30	36	36.1	
	Minimum	-2	7	26	24	22	24	20	26	25	29	26	19	32	16	8	0	7	30	9	-3	7	22	24	26	16	9	3	2	17	16.2	
Emporium.....	Maximum	24	40	39	32	30	35	33	32	32	37	35	42	38	46	32	12	37	37	24	30	27	42	35	35	27	16	18	32	27	31.9	
	Minimum	-4	3	25	24	20	21	19	22	19	30	24	18	22	15	3	-3	7	21	4	-13	-12	23	11	20	8	2	0	-6	10	11.7	
Everett.....	Maximum																															
	Minimum																															
Gettysburg.....	Maximum	21	32	40	39	31	37	41	37	44	53	44	42	45	47	42	24	38	49	42	48	33	40	37	38	34	28	28	35	35	38.4	
	Minimum	3	18	26	21	21	27	29	28	29	30	25	20	32	30	15	6	13	30	25	13	20	24	32	31	19	14	5	6	25	21.2	
Gordon.....	Maximum	19	35	39	39	28	31	37	33	33	34	38	40	37	40	41	13	31	45	42	33	29	39	37	35	32	25	20	28	28	33.1	
	Minimum	-9	16	20	21	22	24	24	25	20	26	20	15	30	10	13	2	-9	25	11	-3	0	22	22	29	17	8	2	-1	22	14.8	
Harrisburg.....	Maximum	21	32	40	37	33	38	37	34	36	41	42	41	39	46	34	20	39	45	35	36	31	38	34	36	29	23	24	33	32	34.7	
	Minimum	-1	19	27	24	25	27	30	29	28	30	29	27	32	24	10	7	14	33	19	15	21	28	29	29	20	10	7	12	23	21.6	
Honesdale.....	Maximum																															
	Minimum																															
Lancaster.....	Maximum	23	34	37	36	33	39	40	39	38	45	43	43	41	45	40	25	38	50	47	47	36	44	38	38	38	33	27	33	35	37.8	
	Minimum	0	19	29	22	21	21	24	29	25	29	20	21	29	27	13	7	11	30	23	14	18	27	31	30	20	14	7	9	27	20.6	
Lebanon, Pa.....	Maximum	21	32	40	29	32	38	38	34	34	42	41	40	36	46	21	19	37	48	29	35	31	44	33	37	29	23	22	32	34	33.7	
	Minimum	-4	-1	20	26	21	26	28	28	25	25	22	24	26	21	18	5	5	18	22	12	16	18	27	27	19	11	5	8	14	17.7	
Lock Haven.....	Maximum	23	32	36	34	24	39	40	35	35	40	39	40	40	45	40	18	40	40	37	33	31	39	37	33	32	26	20	28	32	34.1	
	Minimum	-5	12	20	19	20	19	22	28	24	30	29	24	32	17	5	3	8	36	15	3	6	21	17	29	18	18	2	3	18	17.0	
Mauch Chunk.....	Maximum	18	42	43	38	32	30	37	33	33	42	41	41	37	46	40	18	33	46	38	31	28	41	35	36	30	22	20	28	33	34.2	
	Minimum	-8	15	26	21	22	25	25	26	21	25	23	21	30	15	10	3	1	20	17	10	8	26	21	29	18	10	3	5	22	16.9	
Mifflintown.....	Maximum	19	31	35	34	30	37	36	34	32	34	35	36	36	42	40	12	37	44	39	32	30	35	35	32	31	34	34	28	29	33.2	
	Minimum	-1	16	23	24	23	26	26	27	27	26	27	18	32	16	12	5	5	27	18	13	9	22	24	30	19	12	7	-1	23	18.4	
Milford.....	Maximum	13	40	39	38	36	35	37	34	35	41	40	37	40	46	43	42	31	47	40	40	40	45	37	38	33	32	25	26	36	36.4	
	Minimum	-19	0	16	18	15	22	22	11	12	12	9	24	3	15	0	-7	16	11	9	-5	20	11	22	17	6	-1	-8	14	9.9		
Montrose.....	Maximum	17	40	39	32	25	24	29	28	30	35	37	37	35	42	38	14	26	38	34	27	29	35	30	30	25	16	12	18	29	29.3	
	Minimum	-20	10	20	10	12	12	15	15	11	10	15	15	21	12	4	-7	-10	15	2	-7	-3	15	10	16	10	-3	-11	-9	9	6.5	
Muncy Valley.....	Maximum	18	36	41	32	27	32	34	33	34	40	37	40	35	45	40	15	30	41	34	29	29	40	32	35	29	23	20	26	30	32.3	
	Minimum	12	14	17	25	20	24	12	24	17	21	23	12	32	13	11	-5	-4	20	12	-10	-1	24	15	28	9	-4	-15	-5	13	11.4	
Narberth.....	Maximum	23	41	43	41	30	34	40	35	36	42	43	43	38	48	40	20	37	50	42	35	32	38	36	40	31	26	23	33	34	36.3	
	Minimum	0	20	30	22	22	25	27	28	24	26	31	27	28	26	18	7	12	29	23	14	21	30	30	30	20	14	7	11	27	21.7	
Philadelphia.....	Maximum	24	41	47	38	30	36	42	36	37	44	44	44	40	49	44	22	39	51	43	36	36	40	36	43	33	28	26	36	39	38.1	
	Minimum	2	24	34	25	25	28	31	30	28	29	35	30	32	32	15	11	17	34	23	18	25	35	31	31	24	15	11	19	25	24.8	
Reading.....	Maximum	18	37	43	37	30	35	39	34	34	42	41	42	38	47	33	19	38	52	37	35	30	43	35	37	30	24	23	33	34	35.2	
	Minimum	-2	18	30	21	22	27	29	30	26	30	31	28	32	26	10	8	13	35	19	16	21	30	31	28	20	10	8	15	21	21.9	
Scranton.....	Maximum	23	38	40	36	30	29	32	29	29	39	36	42	36	46	35	18	34	45	25	28	32	37	34	34	27	19	17	27	31	32.0	
	Minimum	-5	20	30	20	20	24	27	23	22	25	27	25	29	22	6	4	10														



Scale of Shades.

- 0 to 1 inch.
- 1 to 2 inches
- 2 to 4 inches
- 4 to 6 inches.
- Over 6 inches

Scale Miles
0 100 200 300 400 500
Kilometers
0 100 200 300 400 500

Daily precipitation for February, 1920. - Continued from page 13.

Stations.	Watershed.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Creekside.....	Allegheny.....					.18									.20	.12				.04	.07				.15								0.77	
Davis Isl. Dam|||..	Ohio.....				.15	.55	.01	T		T	.13			.01		.12	T	T		.04	.07			.59		.18	.01	.01	T	T	T	.12		1.87
Derry.....	Conemaugh.....				.42	.95	.33						.12		.20	.08			.20				.58	.22			.04			T	T	T		3.20
Ebensburg.....	Conemaugh.....				.65	.50	.04	T		T	.27			.05		.26							.53	.06			.07				.17		2.60	
Edinboro.....	Allegheny.....				.21	.21		.03		.03	.15			.07		.25	.07	.21	.17	.23				.01	.01	.04	.02	.11	.11	.02			1.74	
Elk Lick.....	Youghiogheny.....				1.15	.50	.08		T		.13		T	.09		.25	.04			.21			.16	T	.10	T	.08	.07	T	T	T		2.86	
Falls Creek.....	Allegheny.....				.24						.14					.25			.18	.02			.11		.16				.03		.10		1.23	
Franklin|||.....	Allegheny.....				.38	.04					.12	.02		.04	.02	.26	T	.04	T	.10			.07		.12			T		.10			1.31	
Freeport.||||	Allegheny.....				.26	.02	.11	T	T		.02			.02	.03	.07	T		.16	.05			.46	.22				.01			.03		2.06	
Greensburg|||.....	Monongahela.....				.40	.50	.10	T					.10		.10				.14	.10			T	.50		.14		.10			.10		2.28	
Greensburg.....	Youghiogheny.....				.90	.41	.10	T	.03		T		T		.10	.05	.08	T		.19			.43	.11	.22	.02	.10	.11	.03	.03	.06		2.97	
Greenville.....	Beaver.....																																	
Grove City.....	Youghiogheny.....				.24	.06					.19		T		.20	.15	.03	.02	.13				.07	.02	.11	.08	.10	.08	.14	.17	.02		1.81	
Herrs Isl. Dam|||..	Ohio.....				.03	.34	.15	T	T	T	.10			.02		.12	T	T	.02	.12			.51		.19	T	.02				.04		1.66	
Indiana.....	Conemaugh.....				.45	.30	.45	T							.55				.05				.60	.25			.08				.12		2.85	
Irwin.....	Youghiogheny.....				.38	.20	.15	T			.14		T	.05	T	.06			.18			.46	.06	.25	T	.05	T	T	T	T		1.98		
Johnstown.....	Conemaugh.....				1.00	.35	.04	.18	.02		.28			.09	.30	.16	.03	.02	.14			.42	.03	.20	.05	.03	.09	.02	.10	.01			3.57	
Ketner.....	Allegheny.....				.15	.07					.07				.05	.21		.07	.21			.07		.15					.09				1.14	
Linesville|||.....	Beaver.....				.04	.11	.03			.06	.04		.02		.43		.08	.07	.02								T	.06	.04	.08	.11		1.24	
Lock No. 4 ||||	Monongahela.....				.50	.44	.09	.02	T	.01	.09			.08	T	.05	T	.01	.04	.12			.51		.19	.02	.03	.02	T	.02			2.24	
Lycippus.....	Conemaugh.....				.92	.65	.27		T					.04		.17			.18	.11		.42	.09	.10		.11	.21			.09			3.36	
Mosgrove|||.....	Allegheny.....				.44	.07					.07				.11			T	.05	.10			.25	.10			T		.16	.15			1.46	
New Castle.....	Beaver.....				.45	.02				.04				.05		.10	.02	T	.02	.05			.32	.15	T	.05	.02	.02	.20				1.51	
North Shenango.....	Beaver.....				.29					.04					.29			T									.04		.06				0.72	
Parkers Landing|||	Allegheny.....				.30	.05	T			.10	T		T		.20	T	T	.10	.10			.12		.10	T	T	T	T	.30			1.37		
Pennline.....	Beaver.....				.11	.05				.05	.03		.04	.03	.32	.11	.07	.04						.01	.02	.02	.02	.01	.07				1.00	
Pittsburgh***.....	Ohio.....				T	.43	.07	.03	T	T	.01	.08		T	.04	.11	T	T	.13	T			.49	T	.17	.01	.01	.01	T	.03	T		1.62	
Punxsutawney.....	Allegheny.....																																	
Ridgway.....	do.....				1.01										.25			.09						.15					.06				1.56	
Saegertown.....	do.....				.12	.17	.06	T			.16	.10	.06		.30	.08		.10	.20					T		.05			.10				1.50	
Saltsburg|||.....	Conemaugh.....				.21	.62	.11	.05			.21			.04		.21	.04	.04	.06	.11			.52		.22	.01	T	.01	T	.09			2.55	
Shanksville.....	Conemaugh.....				.77	.36	.09		.05	.14					.63								.45										2.49	
Sharon|||.....	Beaver.....				T	.28			T		.08	T		.03		.18			.05	T			T		.03	.01	.04	T	T	.04			0.74	
Somerset.....	Youghiogheny.....				.90	.90		.10	.05		.25		.45		.30		.08	.15	.20			.58		.26	T	.70	.15	.11	.05				5.23	
Springdale.....	Monongahela.....				.07	.46	.13	T		T	.14			.03		.09	T	.02	.07	.07			.47		.11	.01	T	T	T	.05			1.80	
Summit.....	Beaver.....				T						.16			.12				.46									T	T	T	.11			0.85	
Turnerville.....	do.....				.11					.08					.30	.06														.06			0.61	
Uniontown.....	Monongahela.....				.90	.69	.06		T		.25	T	.02	.10	T	.03		.39			.27	.08	.30	T	.07			.05	.09			3.30		
Vandergrift.....	Conemaugh.....				.40	.27	.05				.18			.04	.03	.44			.16					.22			.01		.04				1.84	
Warren.....	Allegheny.....				.20				.05	.05	.10			.25	.06		.10	.12						.12	.04			.02		.13			1.24	
Westford.....	Beaver.....				.17	.05				.08	.03				.32	.05	.05		.05							T	T	T	T	.10			0.87	
West Newton||| ..	Youghiogheny ..				.38	.65	.20	.10	T	T	.13			.05	T	.10	T		.10	.12			.77		.22		.10	T		.15			3.07	
Lake Drainage.																																		
Erie***.....	Lake Erie.....				.38			T		.02	.02	.01	T	.02		.29	.05	.02	T	.06					.08	T	.05	.02	T	.03	.08		1.13	
West Bingham.....	Genesee.....				.30				.10	.05	.05					.05	.10							.10					.10				0.85	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

105
NP

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

PENNSYLVANIA SECTION

MARCH, 1920.

BY

GEORGE S. BLISS
METEOROLOGIST



PHILADELPHIA, PA.
WEATHER BUREAU OFFICE
APRIL 27, 1920.

Departure of the Mean Temperature from the Normal, March, 1920.



Shaded portions show excess (+)
 Unshaded portions show deficiency (-)
 Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

VOL. XXV. PHILADELPHIA, Pa., MARCH, 1920. No. 3.

GENERAL SUMMARY.

The first half of the month was very disagreeable and cold, but after the 20th there was much warm, pleasant weather favorable to outdoor pursuits and agricultural interests. Winter grains were not in good condition owing to the severity of the winter, but made some improvement toward the close of the month.

The most important storm of the month began on the 4th and ended on the 6th. This caused moderately heavy rainfall throughout the State changing to snow on the 5th with unusually strong northeast winds. The greatest amount of snow fell east of the Susquehanna River where the different stations recorded generally from 4 to 6 inches, and a few as much as 10 inches. The snow drifted very badly, some sections of the principal highways remaining impassable for a week.

In the colder parts of the State large amounts of snow remained on the ground from January and February storms. Some of the mail routes from Montrose were said to have been blocked for four weeks. At Edinboro, Erie County, sleighing conditions existed for 90 days ending March 14th.

Warm weather with rain on the 12th reduced the snow cover rapidly, and the principal rivers rose to more than flood stages at many places from the 13th to 17th. Much more serious floods would have occurred, had it not been for the rapid change to colder that set in about the 13th or 14th.

On the night of the 22d there was a very unusual auroral display, which was observed in practically all parts of the State. The observer at Freeland reported it lasting from 7:10 p. m. to 3:45 a. m., with an altitude varying from 35° to 52°. He stated that the magnetic needle was deflected to more than 32° west.

TEMPERATURE.

The mean temperature for the State, as determined from records of 77 stations was 38.7°, or 1.8° above the March normal. The excess was fairly uniform over the State. The monthly averages ranged from 43.8° at Philadelphia to 28.8° at Honesdale. The lowest temperatures occurred on the 1st at most stations, though at many places they fell on various other dates, chiefly the 7th or 8th, in no case later than the 8th. The highest temperatures were recorded on various dates from the 24th to the 31st, chiefly on the 26th and 31st. The extremes for the State were -11° at Milford on the 8th, and 80° at Claysville on the 25th and at Johnstown on the 26th.

PRECIPITATION.

The average precipitation for the State, as determined from records of 118 stations was 2.83 inches, or 0.69 inch below normal. The deficiency was general excepting about half the area east of the Susquehanna River where there was a slight excess. The extremes in the monthly totals were 9.70 inches at Freeland and 1.06 inches at Bethlehem. The greatest amount of precipitation recorded within 24 hours was 3.24 inches at Freeland on the 6th.

Snowfall for the State averaged 6.4 inches, ranging from 20.5 inches at Freeland to 0.1 inch at Bradys Bend. The principal snowstorms occurred on the 5-6th, the 13th and the 29th; also in western counties on the 7th.

BAROMETRIC PRESSURE AND WINDS.

Stations.	In inches, reduced to sea level.					Total movement, in miles.	Velocity, in miles per hour.			
	Average.	Highest.	Date.	Lowest.	Date.		Average.	Highest.	Direction.	Date.
Erie.....	30.03	30.51	3	29.29	13	6,703	9.0	35	n.	5
Harrisburg.....	30.04	30.47	3	29.40	13	6,040	8.1	28	sw.	31
Philadelphia.....	30.04	30.53	3	29.24	13	8,454	11.4	43	nw.	5
Pittsburgh.....	30.03	30.47	3	29.30	19	11,519	15.5	70	w.	12
Reading.....	30.03	30.51	3	29.29	13	6,703	9.0	35	n.	5
Scranton.....	30.01	30.44	3	29.32	13	6,355	8.5	32	w.	13

* For any five-minute period.

SUNSHINE AND HUMIDITY.

Stations.	Sunshine.					Humidity.		Fog.	
	Total hours of sunshine.	Number of hours possible.	Percentage of possible.	Number of days with.		Average per cent.		Number of days with.	
				80 per cent or more.	20 per cent or less.	8 a. m.	8 p. m.	Light fog.	Dense fog.
Erie.....	234.3	370.6	63	12	3	71	63	1	0
Harrisburg.....	241.5	271.0	65	15	6	70	56	0	1
Philadelphia.....	234.9	271.0	73	17	9	78	65	4	2
Pittsburgh.....	230.3	370.8	62	10	6	70	52	0	0
Reading.....	227.0	371.0	61	15	9	69	58	8	0
Scranton.....	.....	.....	.....	8	11	80	62	13	0

COMPARATIVE DATA FOR MARCH.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	31.2	72	-6	3.55	6.39	1.70	.....	.....	.....
1889.....	39.0	76	4	2.90	5.44	1.44	10	8	13
1890.....	33.2	76	-18	5.15	8.31	2.90	6	10	15
1891.....	33.8	60	-14	5.10	8.39	2.44	7	8	16
1892.....	31.8	66	-4	4.14	6.61	2.04	11	7	13
1893.....	34.8	74	3	2.52	5.09	0.71	9	9	13
1894.....	43.2	81	-2	1.63	2.90	0.24	12	11	8
1895.....	33.8	70	-4	2.31	4.03	0.99	10	10	11
1896.....	30.6	69	-18	4.51	7.98	1.77	11	8	12
1897.....	39.0	75	-5	3.22	5.86	1.01	11	7	13
1898.....	44.0	83	4	4.31	8.40	2.06	10	8	13
1899.....	36.3	75	3	4.87	10.30	1.91	5	9	17
1900.....	31.2	66	-23	3.61	7.31	2.25	10	9	12
1901.....	37.4	80	-11	4.14	7.21	1.52	7	10	14
1902.....	41.3	78	2	3.98	7.50	0.77	10	9	12
1903.....	46.4	83	14	4.52	5.81	2.82	10	7	14
1904.....	36.0	80	-2	4.29	7.02	2.10	9	8	14
1905.....	39.0	86	-18	3.86	6.57	1.40	12	8	11
1906.....	31.7	68	-13	4.46	7.37	2.76	8	7	16
1907.....	41.8	92	-10	4.26	8.20	1.08	11	8	12
1908.....	40.7	83	-4	4.76	10.00	1.58	11	8	12
1909.....	35.6	74	-5	3.07	4.90	1.33	10	9	12
1910.....	44.9	88	5	0.56	1.33	0.00	15	10	6
1911.....	35.0	73	-18	2.57	4.75	1.15	11	8	12
1912.....	33.6	72	-8	5.05	9.71	1.80	10	8	13
1913.....	42.1	81	-7	5.27	9.08	2.75	9	8	14
1914.....	34.2	79	-12	2.61	5.08	0.88	10	3	13
1915.....	32.9	62	-4	1.28	2.80	0.57	15	8	8
1916.....	30.7	84	-31	4.12	8.84	2.20	12	8	11
1917.....	37.3	84	-12	3.68	6.06	1.43	11	8	12
1918.....	41.6	82	0	2.34	4.98	0.87	17	.....	7
1919.....	41.1	79	6	3.57	6.99	1.29	15	7	9
1920.....	38.7	80	-11	2.83	9.70	1.06	16	7	8

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.		Highest stage.	Date.	Lowest stage.		Date.	Flood stage.
			
Port Jervis.....	Delaware.....	7.1	11.1	14	3.8	1	18		
Phillipsburg.....	Delaware.....	8.1	16.4	14	1.1	3	22		
Mauch Chunk.....	Lehigh.....	6.8	8.3	17	5.0	2	15		
Wilkes-Barre.....	Susquehanna.....	12.6	25.6	13	2.9	1	20		
Williamsport.....	Susquehanna.....	8.6	20.4	13	1.3	1	20		
Harrisburg.....	Susquehanna.....	11.4	20.1	13	4.4	1	17		
Freeport.....	Allegheny.....	14.5	27.2	13	8.0	31	22		
West Newton.....	Youghiogheny.....	5.5	17.4	7	1.9	31	23		
Greensburg.....	Monongahela.....	10.5	18.2	20	7.7	31	18		
Pittsburgh.....	Ohio.....	10.7	25.1	11	4.7	1	22		
Beaver Dam.....	Ohio.....	17.5	36.5	14	6.4	3	27		

Climatological data for March, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	22	38.6	+1.3	76	26	2	1	41	1.93	-0.84	0.69	8.0	10	17	9	5	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	19	40.8	+1.2	73	25†	12	8	43	1.06	-2.62	0.43	.....	4	10	15	6	sw.	Prof. Chas. H. Rominger.
Bustleton.....	Philadelphia.....	125	..	40.8	.....	73	25	11	8	40	3.11	.....	1.05	8.5	12	12	9	10	s.	Experiment Station.
Carlisle.....	Cumberland.....	467	52	39.0	+1.5	76	29	10	8	38	3.24	-0.32	1.10	7.5	10	20	3	8	sw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	22	39.2	+1.6	77	25	2	1	46	3.44	+0.43	1.62	7.7	9	20	5	6	w.	H. H. Yetter.
Center Hall.....	Center.....	1,272	21	37.4	+1.6	71	31	6	8	46	2.97	-0.36	1.06	10.0	10	17	9	5	.....	S. W. Smith.
Clearfield.....	Clearfield.....	1,120	9	38.6	+2.5	79	26	1	1	49	1.55	-2.31	0.75	6.0	6	18	6	7	sw.	E. W. Hess.
Coatesville.....	Chester.....	380	31	40.1	+0.7	74	31	7	2	43	5.50	+1.21	2.26	12.1	12	15	8	8	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	3	38.8	.....	72	31	6	8	38	3.54	.....	1.81	6.3	11	16	6	9	sw.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	31	35.6	+0.6	75	26	-2	1	44	3.69	-0.05	1.30	9.0	7	15	7	9	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	366	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacob Eichelberger.
Everett.....	Bedford.....	1,080	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. C. Matten.
Freeland.....	Luzerne.....	.....	.....	36.6	.....	66	25	.....	7	42	9.70	.....	3.24	20.5	12	12	9	10	nw.	Theo. Reichman.
George School.....	Bucks.....	190	12	40.8	+1.6	74	26	11	8	42	3.58	+0.25	1.27	2.2	10	21	3	7	w.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	43	42.0	+2.8	78	31	12	1†	44	2.64	-0.52	1.07	2.5	9	21	5	5	w.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	15	36.2	+0.3	72	31	2	8	43	4.59	+0.33	2.56	12.0	9	18	1	12	s.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	25	38.4	0.0	71	31	10	7	39	4.01	-0.11	1.85	9.0	10	21	1	9	nw.	State Sanatorium.
Hanover.....	York.....	600	15	43.0	+1.4	73	29	11	1†	37	1.47	-1.74	0.80	.....	6	23	5	3	w.	Miss Olive M. Ryder.
Harrisburg.....	Dauphin.....	361	31	41.0	+1.9	74	29	14	8	31	2.50	-0.55	1.17	5.1	8	15	6	10	nw.	U. S. Weather Bureau.
Honesdale.....	Wayne.....	1,150	.....	28.8	.....	55	29†	0	3	35	.....	.....	9.0	.....	.....	.....	.....	.....	.....	George Stiles.
Huntingdon.....	Huntingdon.....	650	31	39.8	+1.5	76	26	4	1	48	2.72	-0.87	0.96	7.2	10	16	7	8	w.	Prof. W. J. Swigart.
Kennett Square.....	Chester.....	126	27	40.8	+1.2	72	31	9	8	35	4.76	+1.03	2.50	5.0	13	14	9	8	s.	W. P. Mercer.
Lancaster.....	Lancaster.....	255	16	39.8	+1.8	70	23†	10	1†	43	3.47	+0.02	1.58	6.0	10	21	4	6	e.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	21	35.6	+1.6	74	31	-8	1	49	1.15	-1.34	0.50	13.0	6	18	5	8	sw.	C. P. Darling.
Lebanon.....	Lebanon.....	469	30	40.2	+1.6	74	31	11	1†	40	4.01	+0.18	2.01	6.2	10	18	7	6	sw.	S. B. Benzing.
Lewisburg.....	Union.....	450	44	38.2	+2.9	74	31	0	1	45	2.95	-0.55	1.35	5.5	11	14	8	9	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	31	38.6	+0.8	73	25	7	7	43	3.08	-0.44	0.95	11.0	10	11	14	6	w.	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	4	38.9	.....	74	31	3	1	42	5.49	.....	1.99	7.0	10	19	5	7	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	29	37.2	+0.4	74	25	8	1†	45	6.00	+1.61	2.57	9.5	11	13	10	8	w.	F. C. Wintermute.
Media.....	Delaware.....	103	4	.....	.....	72	30	.....	.....	.....	4.14	.....	1.38	.....	7	17	6	8	s.	North Springfield Water Co.
Mifflintown.....	Juniata.....	445	15	37.3	-0.7	73	29	13	1†	39	2.77	-0.39	0.93	5.5	10	19	4	8	nw.	Wellington Smith.
Milford.....	Pike.....	500	16	33.9	-0.9	71	31	-11	8	50	3.30	-0.19	2.60	8.0	3	21	5	5	w.	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	16	32.8	+1.7	69	31	-10	1	41	2.82	+0.13	1.30	14.0	7	18	3	10	w.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	17	33.7	+1.7	67	26	-5	1	47	3.89	+0.22	1.30	6.0	10	14	3	14	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	7	36.1	.....	75	31	-9	1	47	3.93	.....	1.08	6.0	9	15	4	12	sw.	S. P. Worthington.
Narberth.....	Montgomery.....	300	.....	41.0	.....	73	31	10	7†	36	4.08	.....	1.15	6.8	12	16	5	10	sw.	Charles Decker.
Neshaminy Falls†.....	Bucks.....	60	3	39.8	.....	74	25†	9	3	44	2.53	.....	1.28	2.5	9	18	4	9	w.	North Springfield Water Co.
Palmerston.....	Carbon.....	398	2	37.5	.....	73	31	11	1†	39	3.53	.....	2.36	2.0	9	17	3	11	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	47	43.8	+3.4	74	31	16	7	31	3.35	-0.15	1.55	4.8	11	17	5	9	nw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	3	42.0	.....	72	31	14	7	32	3.19	.....	1.19	4.8	11	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	8	41.2	.....	73	31	12	7†	36	3.69	.....	1.70	.....	6	19	9	3	s.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	32	37.7	+1.4	71	31	7	8	37	3.41	-0.29	0.92	7.0	10	18	5	8	nw.	John E. Benner.
Reading.....	Berks.....	325	47	41.4	+2.0	74	31	13	7	35	4.51	+0.89	2.41	7.0	10	14	4	13	nw.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	.....	41.6	.....	74	25	10	8	44	5.36	.....	2.00	12.8	11	15	7	9	w.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	23	38.2	+2.0	73	25	8	7	37	3.50	0.00	2.00	9.9	9	11	9	11	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	30	40.1	+1.9	78	25	6	6†	49	4.24	+0.51	1.20	20.0	11	4	13†	10†	sw.	J. M. Boyer.
Shawmont.....	Philadelphia.....	51	23	42.0	.....	72	31	14	7†	37	2.68	-0.98	0.74	.....	10	15	8	8	nw.	W. S. Guiles.
State College.....	Center.....	1,217	31	37.5	+2.2	69	31	6	7	38	2.76	-0.54	0.85	8.0	10	17	7	7	nw.	Prof. Wm. Frear.
Stroudsburg.....	Monroe.....	500	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. Clyde Le Bar.
Towanda.....	Bradford.....	754	24	36.4	+2.0	72	25†	-5	1	44	2.98	+0.27	1.15	12.0	10	14	9	8	s.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	39	34.0	+1.3	70	25†	-6	1	48	1.68	-1.64	0.52	10.5	11	23	3	5	sw.	George W. Hill.
West Chester.....	Chester.....	455	64	41.4	+3.1	72	31	9	1	33	5.94	+2.00	1.94	4.0	12	15	6	10	sw.	J. C. Green, D. D. S.
Williamsport.....	Lycorning.....	521	29	39.0	+2.4	74	31	7	1	39	3.73	+0.42	1.52	7.5	11	19	2	10	e.	Jacob April.
York.....	York.....	400	19	40.8	+1.4	74	31	5	1	43	2.92	-0.42	1.32	3.0	9	19	2	7	w.	York Water Co.
Ohio Drainage.																				
Beaver Dam†.....	Beaver.....	700	5	43.2	.....	78	26	7	1	43	2.11	-1.52	0.58	1.3	14	15	0	16	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	2	36.6	.....	75	26	5	1†	45	2.51	.....	0.56	4.6	12	13	11	7	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	.....	37.7	.....	74	26	2	3	48	2.78	.....	0.72	0.1	7	13	8	10	s.	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	8	34.4†	.....	75	26	5†	2†	47	1.65	.....	0.70	2.0	6	15†	7†	5†	.....	John Fawcett.
Clarion.....	Clarion.....	1,500	25	.....	.....	.....	.....	.....	.....	.....	2.58	.....	0.55	4.0	11	20	0	11	w.	N. A. Goble.
Claysville.....	Washington.....	1,150	15	43.8	+3.2	80	25	5	1	46	1.60	-1.90	0.52	2.0	6	16	11	4	w.	E. T. Buchanan.
Derry.....	Westmoreland.....	1,172	22	40.0	-0.1	76	26	7	1†	50	1.93	-2.28	0.47	4.7	8	21	5	5	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	.....	35.0	.....	74	26	-2	2	44	2.25	.....	0.67	3.0	7	18	7	6	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	2	37.6	.....	75	26	1	1											

Daily precipitation for March, 1920.																																			
Stations.	Watershed.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic Drainage.																																			
Allentown	Lehigh					.69						.02	.16	.15			.40	.10		.16	.20												1.93		
Altoona	Juniata					.46	.28				T.		.12	.10	.08		.38	.09	T.		.25	.09							.03			.02	1.85		
Ansonia	Pine Creek												.18	.57			.10				.36												2.64		
Arendtsville	Potomac		.13			1.23																						.07							
Austin	W. Br. Susq.																																		
Bellefonte	do			.11	1.13								.21	.70			.55				.09							.20	.31				3.30		
Bethlehem	Lehigh				.33									.43				.23			.02	.05											1.06		
Bloersville	Lower Susq.		.05	1.02									T.	.40			.50			.20								T.					2.17		
Browers Lock	Schuylkill		.10	1.00	.30								.19	.70			.30	.05			.15	.12						.08	.17		.01	T.	3.17		
Bustleton	Lower Del.			.10	.15								.11	.88	.05		.25	.09			.21	.12						.03	.11		.06	T.	3.11		
Carlisle	Lower Susq.		.10	1.10	.18								.04	.90			.14	.11			.30	.15							.22			T.	3.24		
Catawissa	N. Br. Susq.		.21	1.62								.02	.02	.87			.44				.02	.05						.19					3.44		
Center Hall	Susquehanna		.01	.62	.10								.01	.65	.20						.06	.24						1.06	.02				2.97		
Clearfield	W. Br. Susq.			.75								T.	.37	.05			.24	T.			.12	.02											1.55		
Coatesville	Lower Del.		.20	2.26	.85								.24	.92	.03		.26	.08			.25	.04							.05	.32			5.50		
Colebrook	Lower Susq.		.12	1.81	T.	T.						T.	.13	.53	.09		.32	.02			.24	.11							.12	.05		T.	T.	3.54	
Cresson	Juniata			.52	.30							.04	.13	.73	.05		.41	.12			.10	.32							T.	.03			2.75		
Doylestown	Lower Del.			.74	.55								.18	.44			.55				.12	.02							T.	.06			2.66		
Driftwood	W. Br. Susq.	1.20			1.60								.12	.06	1.20		1.00				.01	.10							.02	T.			5.31		
Emporium	W. Br. Susq.				1.30	T.							.25	.13	.70		.95				.26	.10								T.		T.	3.69		
Ephrata	Lower Susq.																																		
Everett	Juniata																																		
Freeland	Lehigh			1.26	3.24						T.	T.		1.20	1.29		.54	.96	T.		.32	.23								.42		.06	.07	.11	9.70
George School	Lower Del.			.30	1.27								.30	.93			.22	.13			.12	.20								.09			3.58		
Gettysburg	Potomac		.12	1.07	.02								.24	.61			.04				.41	.10							.03				2.64		
Girardville	Schuylkill		.25	1.55	.40								.08	.67			.30				.06	.12								.12			3.55		
Gordon	Lower Susq.				2.56								.05	.85			.40	.19			.10	.22								.18		.04		4.59	
Gouldsboro	Lehigh			1.65	1.18								.61	.35				.41													.35		.26	4.81	
Grater's Ford	Schuylkill				1.42								.54	.36	.17		.19	.13			.13	.14								.02	.30			3.40	
Hamburg	Schuylkill		.15	1.85								T.	.26	.82			.40				.15	.04	.02							.12		.20	T.	4.01	
Hanover	Lower Susq.			.10									.30				.80	.01	.25											T.			1.47		
Harrisburg	do		.10	1.09								T.	.04	.61			.16				.21	.08								.21		T.	2.50		
Holtwood	Lower Susq.			.40	.60								T.	.80	T.		.05	.27			T.	.16								.11		T.	2.39		
Honesdale	Lackawaxen			.96									.03	.09	.66		.29	.09			.14	.10								.34			.02	2.72	
Huntingdon	Juniata			.02	1.13	.10						.07	.25	.45	.03		.22	.02			.08	.11									.30			2.78	
Jersey Shore	W. Br. Susq.					.45							.35	.72			.35				*	.35								.30			2.52		
Karlsruhe	do												*	.85	.26	*	.36				*	.36								*	.20		.02	4.76	
Kennett Square	Delaware			* 2.50	.21								.15	.67	.03		.12	.09			.14	.05												3.47	
Lancaster	Lower Susq.		.04	1.58	.60	T.							.01	.42	.12		*	.54				.17								.04		.04	T.	3.20	
Lansford	Lehigh			.71	1.15								.10	.50							.05	.10								T.			1.15		
Lawrenceville	N. Br. Susq.			.20	.20								.28	.54	.05		.32				.23	.18								.17			4.01		
Lebanon	Lower Susq.		.10	2.01	.08							.02	.10	.35			.23	.10			.05	.17								.18			T.	2.95	
Lewisburg	W. Br. Susq.		.09	1.35	.31								.05	.36	.42		.23	T.	.08		.11									.40			.02	3.08	
Lloyd	Pine Creek		.03	.82	T.								.12	.33	.77		.34	T.			.18									.17			.02	3.08	
Lock Haven	W. Br. Susq.		.05	.95	.10								.12	.33	.77		.34	T.			.18									.17			.02	3.08	
Lukes	Susquehanna		.02	1.99	.37							T.	.12	.99			.33	.11			.12	.21								.23			T.	4.49	
Mauch Chunk	Lehigh		.06	2.57	1.25								.40	.85			.49	.09			.14	.08								.07				6.00	
Media	Lower Del.																																		
Mifflintown	Juniata		.08	.93									.06	.10	.64		.16	.06			.07	.16								.51				2.77	
Milford	Upper Del.			2.60								T.		.60																		.10		3.30	
Montrose	N. Br. Susq.		.130	.30										.40			.20				.10	.30								.22				2.82	
Mount Pocono	Upper Del.		.130	.08										1.00	.04		.40	.10			.26	.36	T.								.20	.15		3.89	
Muncy Valley	W. Br. Susq.		.27	1.08	.40								.60	.77			.23	.17			.23										.18			3.93	
Narberth	Lower Del.		.02	1.13	.48								.11	1.15			.34	.12			.40	.03								.08	.15		.07	T.	4.08
Neshaminy	Lower Del.			.08	1.28	T.								.28	.15			.31				.28	T.								.09		.05	.01	2.53
Palmerston	Lehigh		.03	2.36	.01								.07	.61			.30				.12	.02								</					

Daily temperatures for March, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.		
Atlantic Drainage.																																		
Altoona.....	Maximum....	30	43	48	43	41	16	20	29	45	54	55	66	59	32	47	51	49	45	40	34	46	58	68	66	68	76	63	63	67	59	71	50.1	
	Minimum....	2	14	19	30	16	6	8	9	24	32	36	41	18	14	18	35	33	25	30	27	23	31	33	33	43	52	42	28	45	34	39	27.1	
Bethlehem.....	Maximum....	39	48	48	48	48	43	39	32	42	56	57	58	58	37	45	58	58	44	44	38	46	60	70	70	73	73	64	66	66	62	73	53.6	
	Minimum....	14	18	16	28	38	16	13	12	18	31	36	42	40	18	26	30	28	26	23	30	28	30	32	34	30	36	32	30	42	34	38	28.0	
Bustleton.....	Maximum....	36	38	50	49	49	35	28	29	43	56	62	61	58	35	48	55	54	44	37	40	49	60	65	70	73	67	59	63	70	64	71	52.2	
	Minimum....	13	28	20	27	33	18	12	11	22	32	35	45	28	20	21	32	39	30	26	32	30	30	34	30	33	38	46	29	37	40	40	29.4	
Carlisle.....	Maximum....	37	40	42	39	42	25	27	31	44	52	52	52	46	36	47	53	50	45	42	40	48	59	66	64	67	69	64	63	76	64	74	50.2	
	Minimum....	11	15	18	23	25	12	12	10	18	27	34	35	29	21	20	32	38	29	29	29	28	26	28	29	34	46	49	31	44	40	39	27.8	
Clearfield.....	Maximum....	34	47	56	47	42	25	23	31	47	58	54	67	59	40	53	56	48	51	41	36	52	62	70	74	74	79	65	68	65	68	72	53.7	
	Minimum....	1	15	14	22	19	9	8	9	25	31	33	37	19	14	11	31	32	27	29	19	18	22	26	25	29	44	37	31	24	29	23.5		
Emporium.....	Maximum....	31	42	47	45	45	24	19	28	44	52	47	62	45	32	48	56	49	41	36	35	44	57	67	66	69	75	56	64	66	58	69	49.0	
	Minimum....	-2	13	9	21	14	8	5	9	23	33	31	39	11	11	5	38	29	26	25	28	11	19	23	23	27	52	34	24	35	31	29	22.1	
Everett.....	Maximum....	44	42	50	41	41	28	31	35	49	63	64	61	57	41	50	57	56	53	45	40	56	66	72	71	72	69	66	68	77	67	78	55.2	
	Minimum....	12	15	18	22	24	13	13	12	23	34	36	44	30	20	22	31	42	28	33	30	29	26	28	30	32	45	50	29	45	40	39	28.9	
Gettysburg.....	Maximum....	35	38	41	41	41	27	29	30	39	46	52	57	54	35	42	47	49	40	38	34	46	57	68	65	70	67	61	67	67	62	72	48.9	
	Minimum....	3	9	12	22	27	12	8	2	7	26	29	39	26	15	10	31	35	27	22	30	25	20	25	27	28	40	34	25	45	34	30	23.4	
Gordon.....	Maximum....	38	41	43	41	44	24	26	30	43	56	59	59	50	37	46	55	51	46	37	37	48	61	68	65	69	65	56	63	74	62	72	50.5	
	Minimum....	16	26	25	30	20	15	15	14	25	34	38	42	21	22	28	35	36	31	29	31	31	31	37	38	39	47	44	37	49	41	46	31.4	
Harrisburg.....	Maximum....	36	39	46	44	40	35	27	34	44	59	60	60	61	38	46	56	60	50	46	40	50	62	70	70	69	64	62	64	68	66	68	52.7	
	Minimum....	10	16	20	15	22	15	12	10	15	32	34	37	29	21	22	32	43	29	28	32	29	25	27	29	30	38	34	29	45	35	35	26.8	
Lebanon. §§.....	Maximum....	37	39	46	42	45	39	25	31	44	57	61	58	54	36	45	56	54	45	44	38	48	60	69	68	71	68	60	65	70	64	74	52.0	
	Minimum....	11	20	21	28	36	15	11	11	20	30	35	39	26	19	22	33	38	29	26	30	27	27	29	31	31	42	47	31	45	38	35	28.5	
Lock Haven.....	Maximum....	35	39	42	41	43	23	25	30	42	55	54	58	54	36	46	47	46	48	44	36	52	57	64	71	73	70	64	61	70	54	70	50.0	
	Minimum....	8	19	15	25	22	8	7	10	25	33	33	36	24	15	13	33	36	30	29	32	22	25	38	28	30	50	42	25	50	32	35	27.1	
Mauch Chunk.....	Maximum....	35	39	45	40	44	25	23	31	42	54	58	54	45	34	44	53	51	42	35	37	49	60	71	68	74	62	58	69	62	61	72	49.6	
	Minimum....	8	13	15	25	21	14	8	13	25	31	36	22	15	14	34	35	28	26	31	25	23	26	29	28	34	38	33	44	35	36	24.9		
Midflintown.....	Maximum....	29	41	45	38	37	22	23	27	42	47	46	47	45	36	43	52	42	45	43	34	46	48	64	65	68	70	55	59	73	61	72	47.3	
	Minimum....	13	17	18	28	22	13	13	18	22	29	33	35	22	18	19	34	36	31	30	32	28	25	25	27	29	49	45	26	34	38	36	27.3	
Milford.....	Maximum....	37	35	42	42	45	43	40	30	43	56	43	52	53	54	53	42	49	51	47	38	39	47	59	65	65	68	63	58	61	48	59	71	50.2
	Minimum....	2	2	4	13	33	9	4	-11	5	20	25	30	21	12	3	26	33	25	13	22	13	14	21	23	18	25	31	22	31	31	27	17.6	
Montrose.....	Maximum....	31	35	45	39	42	20	18	25	38	49	49	50	50	25	40	41	45	33	28	35	43	52	61	61	65	66	59	60	63	53	69	44.8	
	Minimum....	-10	4	14	27	16	7	-1	-7	17	29	34	38	16	10	-1	15	28	21	14	24	15	19	30	37	38	49	36	28	45	28	23	20.9	
Muncy Valley.....	Maximum....	38	38	47	45	45	25	23	28	42	54	55	52	43	34	45	50	45	41	38	38	47	59	70	70	71	69	61	66	72	64	75	50.0	
	Minimum....	-9	12	11	21	20	14	-1	-6	15	28	37	35	22	10	7	33	33	26	23	30	14	21	27	28	29	42	37	24	50	28	28	22.2	
Narberth.....	Maximum....	37	39	49	50	50	28	29	31	44	58	62	61	54	36	48	54	52	44	35	41	51	62	67	69	72	62	58	64	70	63	73	52.0	
	Minimum....	13	21	23	30	27	11	10	10	23	31	39	45	27	19	23	36	38	30	29	33	30	33	34	35	36	42	44	32	43	39	43	30.0	
Philadelphia.....	Maximum....	41	40	51	52	51	30	29	31	45	60	64	63	55	38	49	56	55	46	36	45	52	62	67	68	70	67	61	64	70	63	74	53.4	
	Minimum....	17	26	29	32	22	19	16	17	26	36	44	49	24	24	30	36	38	34	30	36	35	37	41	43	44	47	44	38	46	44	52	34.1	
Reading.....	Maximum....	38	40	49	43	47	26	26	31	43	56	59	60	55	36	47	57	54	44	35	38	47	60	70	71	70	64	57	65	68	61	74	51.3	
	Minimum....	14	26	26	32	20	14	13	14	24	38	39	48	20	20	28	35	36	32	29	33	42	34	40	38	37	47	40	34	44	40	46	31.4	
Scranton.....	Maximum....	34	39	49	44																													



Daily precipitation for March, 1920.—Continued from page 21.

Stations.	Watershed.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Creekside.....	Allegheny.....					.31	.01	.01	T.			.05	.13	.31	.02		.09	.40		.01	.67	T.						T.	T.		.02		T.	2.03	
Davis Isl. Dam|||..	Ohio.....	T.				.44		.05					.12	.34			.47	.03		.36	.12												1.93		
Derry.....	Conemaugh.....					.45		T.	T.				.12	.38	T.		.67	.11			.49							.03					2.25		
Ebensburg.....	Conemaugh.....					.39	.02	.02				.16	.35	.04	.01		.14	T.		.24	.09								.07		.24		1.77		
Edinboro.....	Allegheny.....					.10	T.	T.				T.	.03	.18			.17	.25		.42	.25							T.		T.	T.		1.40		
Elk Lick.....	Youghiogheny.....					.60						.09	.47	.22			.41			.15	.22												2.21		
Falls Creek.....	Allegheny.....					.70	.02					.24	.48	.02	.06		.22	.30	T.	.03	.83								.09		.04		T.	3.03	
Franklin|||.....	Allegheny.....					.65						.07	.17	.15	.03		.18	.46		.04	.61								.06	.12			T.	2.54	
Freeport.||||	Allegheny.....					.50	.05	T.				.10		.64	.10		.10	.52		.30	.14												2.45		
Greensboro|||.....	Monongahela.....				T.	.35	T.	.12	T.			.03	.10	.28	.01		.41	.05		.04	.17								T.	T.	T.	T.		1.66	
Greensburg.....	Youghiogheny.....					.65	.05	.01	T.			.14	.31	.05			.05			.05	.06												1.37		
Greenville.....	Beaver.....					.31	T.	.03	T.			.07	.06	.29	.03		.07	.36		.03	.36	T.						T.	T.		.02		T.	1.63	
Grove City.....	Youghiogheny.....					.22						.05	.16	.34	T.		.36	.04		.11	.22												1.65		
Harris Isl. Dam|||..	Ohio.....	T.				.35	T.	.05				.05	.16	.34	T.		.36	.04		.11	.22										.01		1.69		
Indiana.....	Conemaugh.....					.66	.02	.06				.04	.14	.15	.02		.60			.34	.38	T.						.09				.02	.01	2.83	
Irwin.....	Youghiogheny.....					.48						.11	.48	.22	.05		.36			.21	.16										.07		2.18		
Johnstown.....	Conemaugh.....					.26	.06	.07		T.		.33	.26	T.	.07		.13	.10		T.	.35	.03							.02	T.				1.68	
Ketner.....	Allegheny.....					.29	.01	.01	T.			.04	.06	.48	.07		.08	.38		.07	.19	T.												1.72	
Linesville|||.....	Beaver.....					.42	T.	T.				.10	.15				.50			.37														1.54	
Lock No. 4|||.....	Monongahela.....					.38	.02					.03	.25	.19	.02		.04	.35		.17														1.45	
Lycippus.....	Conemaugh.....					.80			T.	T.			.26	.02	.02		.04	.23	.25		.06	.60	.11											2.35	
Mosgrove|||.....	Allegheny.....	T.				.31	.19					.26	.25				.14	.21		.20	.25													1.95	
New Castle.....	Beaver.....					.68	T.	T.	T.			.10	.35	.15	T.		.05	.27	T.	.05	.95								.06		.08			2.69	
North Shcnango.....	Allegheny.....					.20	.02	.07	.03	.01		.40	.30	.01	.01		.13	.03	.02	T.	.32												.16		1.73
Parkers Landing|||..	Beaver.....					.13	.19	T.	.06		T.	.06	.28	.26			.37			.33	.08													1.77	
Pennline.....	Ohio.....					.51					.08	.35					.50			.30									.05					1.79	
Pittsburgh***.....	Allegheny.....					.68						.09	.28	.15						.35														1.55	
Punxsutawney.....	do.....					.60	T.					.04	.43	.13			.30			.11	.45											.22		2.14	
Ridgway.....	do.....					.36	.09	.02	.01			.04	.12	.29	.08		.02	.25		.08	.31	.02											.01	1.72	
Saegertown.....	Conemaugh.....																																		
Saltsburg|||.....	Conemaugh.....					.01	T.	T.				.28	.03	.01			.15	.13	T.		.50	T.													
Shanksville.....	Beaver.....					.08		.05					.50		T.		.55	.10		.16	.60	.55													
Sharon|||.....	Youghiogheny.....					.09		T.				.46	.27			.13				.28														1.13	
Somerset.....	Monongahela.....																																		2.69
Springdale.....	Beaver.....					.65		.02				.06	.11	.63			.58			.17	.13													2.35	
Summit.....	do.....					.20						.08	.25	.18			.34	.16		.11	.24											.03		1.59	
Turnerville.....	Monongahela.....					.14	.02	.01		.04		.51		.10			.24			.18	.12													1.43	
Uniontown.....	Allegheny.....					.26	T.	.03		.05		.24	.20	T.	T.		.20	.10		.42														1.55	
Vandergrift.....	Beaver.....					.45	.04	.10	T.				.15	.42	.12		.20	.40		.05	.35	T.												2.32	
Warren.....	Youghiogheny.....																																		
Westford.....	do.....																																		
West Newton|||.....	do.....																																		
Lake Drainage.																																			
Erie***.....	Lake Erie.....					T.	.01	.02	T.	.01		.26	.37	.07			.13	T.		.07	.16													1.33	
West Bingham.....	Genesee.....					T.	.50					.10	.35	.50			.25		T.	.30														2.50	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

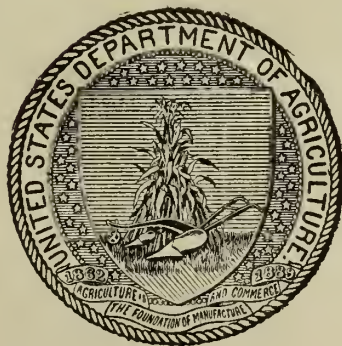
PENNSYLVANIA SECTION

APRIL, 1920.

BY

GEORGE S. BLISS

METEOROLOGIST



PHILA. PA.
WEATHER OFFICE
MAY 14, 1920

Departure of the Mean Temperature from the Normal, April, 1920.



Shaded portions show excess (+).
Unshaded portions show deficiency (-).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

VOL. XXV. PHILADELPHIA, PA., APRIL, 1920. No. 4.

GENERAL SUMMARY.

The month as a whole was moderately cool and dry. There were 16 days with rain, but the rainfall was generally light. The low temperatures made vegetation slow in starting, and the frequent light rains delayed farm work, which was almost at a standstill during a large part of the month. From the 5th to the 9th, inclusive, there were frequent snow flurries, and in some places the snowfall was heavy for the time of year. Although the average rainfall for the State was below the April normal, it was of such a character that there was comparatively little runoff. The soil became completely saturated and too wet to plow or work except on well drained fields. During a warm period, from the 19th to 23d inclusive, the buds swelled on the trees, and peaches and cherries would soon have bloomed, but a sudden drop in temperature checked the development so that the frosts and freezing temperatures that followed did no material harm. The conditions seemed to be favorable for winter wheat and rye. The reports early in the month stated that wheat was very spotted and poor, but near the close of the month many observers reported that the spots were filling up and that many poor fields could be classed as fair. Rye wintered in better condition than wheat. Pastures and meadows wintered well and the grass came up to an even stand, but grew slowly. The making of home gardens was begun at many places in the southern counties near the close of the month, but truck gardeners had done little except to prepare the ground for planting. The month was comparatively free from high winds or disagreeable storms. Thunderstorms were quite general during a warm period, from the 21st to the 23d, when there was from 12° to 15° excess in the temperature. The streams were at moderate stages most of the month, and the water supply was ample.

TEMPERATURE.

The mean temperature for the State, as recorded at 73 stations, was 46.0°, or 2.8° below the April normal. The highest temperatures occurred quite generally on the 22d, and were about 15° above the normal. The lowest temperatures were recorded from the 6th to the 10th, and were very low for the time of the year. The highest mean temperature recorded in the State was 51.4° at Philadelphia, and the lowest was 39.2° at West Bingham. The highest temperature reached during the month was 87° at Lewisburg on the 22d, and the lowest was 8° at Ebensburg on the 10th. The greatest daily range was 47° at Saegerstown on the 5th.

PRECIPITATION.

The average precipitation for the State, as reported from 122 stations, was 4.39 inches, or 0.96 inch less than the April normal. In some of the western counties there were as many as 20 days with rain, and the average for the State was 16 days. During most of the time the daily rainfall was less than 0.25 inch. The 10th, 11th, 14th, 19th, and 25th were fair in all parts of the State. The greatest monthly rainfall was 11.34 inches at Freeland, and the least was 2.44 inches at Towanda. The average snowfall for the State was 3.0 inches, and the greatest amount was 12.0 inches at Clearfield. Warren reported 9.6 inches. The snowfall was mostly light in the eastern half of the State.

BAROMETRIC PRESSURE AND WINDS.

Stations.	In inches, reduced to sea level.					Total movement, in miles.	Velocity, in miles per hour.			
	Average.	Highest.	Date.	Lowest.	Date.		Average.	Highest.	Direction.	Date.
Erie.....	29.80	30.33	25	29.24	4	12,208	17.0	54	w.	2
Harrisburg.....	29.85	30.25	25	29.30	5	6,358	8.8	31	w.	7
Philadelphia.....	29.85	30.22	26	29.19	5	8,133	11.3	35	nw.	23
Pittsburgh.....	29.84	30.32	25	29.26	4	10,330	14.3	53	sw.	12
Reading.....	29.84	30.22	25	29.25	5	6,383	8.9	31	nw.	7
Scranton.....	29.84	30.25	26	29.22	5	6,499	9.0	33	sw.	6

* For any five-minute period.

SUNSHINE AND HUMIDITY.

Stations.	Sunshine.					Humidity.		Fog.	
	Total hours of Sunshine	Number of hours possible.	Percentage of possible.	Number of days with.		Average per cent.		Number of days with.	
				80 per cent or more.	20 per cent or less.	8 a. m.	8 p. m.	Light fog.	Dense fog.
Erie.....	219.0	401.1	55	6	5	71	71	1	0
Harrisburg.....	237.6	398.6	60	11	5	64	59	1	0
Philadelphia.....	248.9	398.6	62	11	5	69	60	5	5
Pittsburgh.....	161.8	399.9	40	4	11	71	61	4	1
Reading.....	216.9	398.6	54	8	7	67	61	8	0
Scranton.....				5	17	83	65	6	

COMPARATIVE DATA FOR APRIL.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	47.2	92	12	2.52	4.23	0.99	14	10	6
1889.....	49.7	88	14	4.50	8.15	2.09	11	8	11
1890.....	48.6	85	12	3.46	5.50	1.75	.....	.....	.....
1891.....	49.8	87	11	2.08	3.54	1.12	13	9	8
1892.....	46.9	85	14	2.04	4.43	0.61	10	10	10
1893.....	47.7	85	16	4.74	6.91	2.95	7	10	13
1894.....	48.0	83	5	3.62	10.00	1.69	11	8	11
1895.....	49.2	90	5	3.76	7.09	0.79	10	8	12
1896.....	53.0	97	4	1.75	3.39	0.20	10	10	10
1897.....	49.0	92	12	3.30	4.63	1.20	12	9	9
1898.....	45.6	84	4	2.93	5.34	1.36	9	8	13
1899.....	50.2	92	2	1.76	3.25	0.70	15	9	6
1900.....	49.2	90	13	1.57	2.80	0.60	14	8	8
1901.....	47.2	95	10	5.41	9.18	1.46	9	5	16
1902.....	48.0	91	20	3.56	7.14	1.34	8	10	12
1903.....	48.8	90	12	3.53	4.93	2.16	11	7	12
1904.....	44.7	86	9	3.45	6.42	1.34	8	8	14
1905.....	48.4	84	16	2.84	4.74	1.39	9	11	10
1906.....	50.0	89	12	3.13	6.96	0.75	14	8	8
1907.....	43.6	84	8	2.64	4.42	1.02	10	7	13
1908.....	49.8	89	0	3.51	6.31	1.85	12	8	10
1909.....	48.5	87	8	5.39	8.42	2.67	10	9	11
1910.....	52.6	89	18	5.07	8.50	2.21	10	9	11
1911.....	46.2	84	6	3.79	5.85	1.66	11	7	12
1912.....	50.2	83	18	4.39	7.31	2.41	10	7	13
1913.....	50.6	90	17	3.82	9.28	1.46	12	6	12
1914.....	47.3	93	5	4.66	7.50	1.90	10	8	12
1915.....	53.9	98	15	1.92	4.41	0.46	13	10	7
1916.....	48.0	87	16	3.65	7.40	1.65	9	9	12
1917.....	48.5	87	14	2.08	4.89	0.41	11	10	9
1918.....	48.2	81	12	4.53	2.41	0.30	10	9	11
1919.....	48.5	90	6	2.70	4.76	0.90	10	10	10
1920.....	46.0	87	8	4.39	11.34	2.44	9	9	12

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.		Highest stage.	Date.	Lowest stage.		Date.	Flood stage.
		Mean.	Highest.			Mean.	Highest.		
Port Jervis.....	Delaware.....	5.6	8.9	3	4.2	26	18		
Phillipsburg.....	Delaware.....	6.6	10.9	3	4.4	28	22		
Mauch Chunk.....	Lehigh.....	5.1	6.5	1	4.5	29	15		
Wilkes-Barre.....	Susquehanna.....	8.5	12.9	1	6.3	28	20		
Williamsport.....	Susquehanna.....	5.4	7.8	19	4.1	4	20		
Harrisburg.....	Susquehanna.....	6.5	7.9	1	5.6	14	17		
Freeport.....	Allegheny.....	8.1	12.6	18	5.9	11	22		
West Newton.....	Youghiogheny.....	3.1	6.4	22	1.4	3	23		
Greensburg.....	Monongahela.....	9.6	16.9	22	7.6	1	18		
Pittsburgh.....	Ohio.....	7.3	14.4	22	3.5	2	22		
Beaver Dam.....	Ohio.....	12.1	23.2	22	6.7	3	27		

Climatological data for April, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.			Prevailing direction of wind.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation in. or more.	Clear.			Pt. cloudy.	Cloudy.
Atlantic Drainage.																				
Altoona	Blair	1,615	22	44.4	-3.8	80	22	19	10	35	6.39	+3.61	0.96	6.0	21	6	18	6	w.	Lewis E. Biller.
Bethlehem	Northampton	205	19	49.6	-2.3	80	22†	23	10	39	4.53	+1.37	1.05	.....	11	4	20	6	w.	Prof. Chas. H. Rominger.
Bustleton	Philadelphia	125	.....	49.0	.....	79	22	25	10	32	4.10	.....	0.82	.....	15	12	8	10	w.	Experiment Station.
Carlisle	Cumberland	467	52	48.2	-4.0	82	22	22	10	32	4.81	+1.48	0.85	T.	14	13	5	12	nw.	Prof. C. E. Miller.
Catawissa	Columbia	520	22	45.8	-5.5	81	22	20	8†	45	4.11	+0.68	0.67	T.	14	10	5	15	w.	H. H. Yetter.
Center Hall	Center	1,272	21	44.0	-4.9	77	22	19	8	36	4.17	+1.02	0.76	.....	12	14	10	6	.....	S. W. Smith.
Clearfield	Clearfield	1,120	9	44.8	-3.2	85	22	16	10	44	4.90	+1.51	1.53	12.0	17	10	12	8	w.	E. W. Hess.
Coatesville	Chester	380	31	49.6	-1.2	81	22	24	9	34	4.71	+1.09	0.93	T.	16	7	18	5	w.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	3	47.6	.....	78	21	22	10	32	5.32	.....	1.16	T.	15	11	7	12	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	31	41.8	-5.3	76	22	15	10	41	3.47	+0.12	0.48	1.9	18	7	6	17	w.	T. B. Lloyd.
Ephrata	Lancaster	366	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacob Eichelberger.
Everett	Bedford	1,080	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. C. Matten.
Freeland	Luzerne	.....	.....	42.8	.....	71	23	18	8	27	11.34	.....	1.92	4.0	21	5	8	17	nw.	Theo. Reichman.
George School	Bucks	190	12	49.2	-0.9	79	23	25	9	39	3.20	-0.44	0.61	0	12	19	3	8	w.	Prof. N. W. Swayne.
Gettysburg	Adams	600	43	50.1	-0.3	86	22	22	10	37	4.89	+1.32	1.05	T.	15	10	12	8	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	15	44.6	-3.3	78	22†	15	10	38	4.15	-0.68	0.74	T.	13	8	8	14	w.	Capt. J. G. Johnson.
Hamburg	Berks	380	25	46.4	-4.0	79	22	22	9	31	3.71	-0.62	0.52	0	20	15	8	7	sw.	State Sanatorium.
Hanover	York	600	15	49.4	-3.4	77	22†	26	9	31	5.26	+2.08	0.95	.....	14	13	10	7	nw.	Miss Olive M. Ryder.
Harrisburg	Dauphin	361	31	48.2	-3.3	81	22	28	10	27	4.37	+1.27	0.91	T.	16	6	13	11	w.	U. S. Weather Bureau.
Honesdale	Wayne	1,150	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	George Stiles.
Huntingdon	Huntingdon	650	31	46.3	-3.3	83	22	17	10	38	5.67	+2.33	1.16	T.	15	8	9	13	w.	Prof. W. J. Swigart.
Kennett Square	Chester	126	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster	Lancaster	255	16	49.9	-0.9	80	22†	22	10	35	5.64	+2.16	1.39	0	13	17	6	7	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	21	43.8	-2.0	76	22	15	8	40	2.55	-0.63	0.50	3.0	11	7	12	11	.....	C. P. Darling.
Lebanon	Lebanon	469	30	48.9	-1.6	81	22	23	10	36	4.69	+1.34	0.89	T.	13	15	8	7	w.	S. B. Benzing.
Lewisburg	Union	450	44	46.6	-1.6	87	22	19	8	38	4.38	+0.82	0.76	.....	15	9	3	18	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	31	44.7	-5.6	81	22	20	8†	36	4.57	+1.19	0.80	1.5	19	7	11	12	w.	Prof. J. A. Robb.
Lykens	Dauphin	680	4	46.4	.....	82	22	15	10	36	3.71	.....	0.70	T.	17	7	14	9	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	29	46.0	-2.8	80	22	20	8†	37	4.47	+0.54	0.83	0.5	16	12	4	14	w.	F. C. Wintermute.
Media	Delaware	103	4	.....	.....	79	22	.....	.....	.....	5.56	.....	1.28	.....	.....	19	4	7	n.	North Springfield Water Co.
Mifflintown	Juniata	445	15	45.1	-4.4	81	22	18	10	35	4.68	+0.68	0.97	1.0	18	6	9	15	nw.	Wellington Smith.
Milford	Pike	500	16	41.8	-1.8	75	22	14	9†	44	4.45	+1.13	0.87	T.	8	12	10	8	w.	J. H. Van Etten.
Montrose	Susquehanna	1,658	16	42.8	-1.3	72	1	14	8	32	3.12	-0.42	0.74	T.	13	12	10	8	w.	Silas Jagger.
Mount Pocono	Monroe	1,720	17	39.4	-3.6	66	22	12	8	29	5.02	+0.86	0.90	3.0	17	7	10	13	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	7	46.2	.....	79	22	16	8	41	4.06	.....	0.78	T.	12	7	8	15	.....	S. P. Worthington.
Narberth	Montgomery	300	.....	49.2	.....	79	22†	25	9	33	4.51	.....	0.88	T.	18	12	8	10	nw.	Charles Decker.
Neshaminy Falls	Bucks	60	3	48.0	.....	80	22	22	10	36	3.68	.....	0.62	T.	14	15	6	9	w.	North Springfield Water Co.
Palmerton	Carbon	398	2	45.8	.....	78	22	22	9†	33	3.40	.....	0.51	T.	18	9	10	11	w.	F. G. Breyer.
Philadelphia (a)	Philadelphia	117	47	51.4	-0.2	80	23	32	9	28	3.92	+0.55	0.88	T.	16	10	13	7	nw.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	3	50.6	.....	79	22	33	6†	28	3.59	.....	1.10	0	12	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville	Chester	100	8	50.6	.....	80	22†	28	10	32	4.29	.....	1.40	.....	10	11	13	6	w.	North Springfield Water Co.
Quakertown	Bucks	496	32	47.1	-1.3	79	22	20	9	37	5.77	+1.58	1.43	T.	13	10	12	8	w.	John E. Benner.
Reading	Berks	325	47	48.3	-2.3	80	22	27	10	29	5.10	+1.78	1.37	T.	17	6	11	13	nw.	U. S. Weather Bureau.
Sadsburyville	Chester	649	.....	49.4	.....	86	22	25	9	30	4.98	.....	0.87	0	17	8	13	9	w.	S. A. Clarke.
Scranton	Lackawanna	805	23	45.4	-2.5	73	22	23	8	33	2.53	-0.30	0.55	0.4	16	6	7	17	sw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	30	46.4	-3.5	77	23	21	10	36	4.26	+0.70	1.08	T.	13	0	13	17	nw.	J. M. Boyer.
Shawmont	Philadelphia	51	23	50.6	.....	79	22	27	10	31	3.28	+0.11	0.80	0	9	14	10	6	nw.	W. S. Guiles.
State College	Center	1,217	31	43.2	-4.2	78	22	19	8	29	5.95	+2.71	0.91	1.4	18	10	12	8	w.	Prof. Wm. Frear.
Stroudsburg	Monroe	500	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. Clyde Le Bar.
Towanda	Bradford	754	24	44.1	-2.5	73	1	18	8	39	2.44	-0.56	0.40	1.4	19	7	9	14	nw.	Hiram E. Bull. C. E.
Wellsboro	Tioga	1,419	39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	George W. Hill.
West Chester	Chester	455	64	49.8	+0.1	79	22	24	10	29	5.59	+2.17	1.48	.....	15	11	12	7	w.	J. C. Green, D. D. S.
Williamsport	Lycoming	521	29	46.8	-1.8	79	22	23	8†	33	3.64	+0.22	0.71	0.2	15	9	5	16	se.	Jacob April.
York	York	400	19	49.0	-1.7	81	22	20	10	37	5.80	+2.85	1.10	T.	16	10	9	11	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	5	47.8	.....	82	22†	20	10	42	3.37	.....	0.84	2.5	16	4	2	24	sw.	U. S. Engineer.
Bradford	McKean	1,427	2	42.0	.....	78	22	16	8	41	4.43	.....	0.74	4.4	19	4	11	15	sw.	City Engineer.
Bradys Bend	Armstrong	930	.....	41.8	.....	78	22	14	10	40	4.88	.....	0.80	3.1	18	3	11	16	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	8	40.2 ^b	.....	78	22	10	10	45	.....	.....	.....	3.0	.....	9 ^a	10	10	.....	John Fawcett.
Clarion	Clarion	1,500	25	.....	.....	.....	.....	.....	.....	.....	4.87	+1.18	0.82	4.5	16	13	2	15	w.	N. A. Goble.
Claysville	Washington	1,150	15	48.1	-2.5	84	22	18	10	44	3.82	+0.26	0.78	1.0	12	5	14	11	w.	E. T. Buchanan.
Derry	Westmoreland	1,172	22	46.3	-3.0	82	22	15	10	42	4.53	+0.79	1.03	1.0	18	9	8	13	w.	Miss N. Dixie Wineman.
Ebensburg	Cambria	2,000	.....	41.6	.....	78	22†	8	10	44	5.22	.....	0.64	2.0	17	12	10	8	w.	D. H. Jones.
Elk Lick	Somerset	2,200	2	43.4	.....	82	22	14	10	46	5.25	.....	0.65	3.0	19	9	8	13	w.	J. D. Miller.
Franklin	Venango	1,000	25	42.4	-3.9	80	22	20	6†	41	4.34	+1.								

Daily precipitation for April, 1920.

Stations.	Watershed.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh	.45	.81	T.	.28	.78	.09						.40				.42	.49			.70	.21												
Altoona	Juniata	.25		.79	.96	.06	.22	.03					.05	.56	.01		.39	.51	.01		.70	.21							.43		.45		5.51	
Ansonia	Pine Creek	.08	.12	.12	.30	.24	.10	.01	T.					.57				.03			.44	.09		.16				.25	.37	.17	.14		6.39	
Arendtsville	Potomac	1.00	.54	.57	.48			.12	T.					.58			.44	.58			.17	.21		.08	.09			.02	.37	.31	.15		3.11	
Austin	W. Br. Susq.																																5.62	
Bellefonte	do.			.73	.85		.20							.73			.55	.75										*	*					
Bethlehem	Lehigh	1.05		.08	.55									.50			.15	.52	.08		.95		.17										4.23	
Bloersville	Lower Susq.	.60		1.05		T.	T.							.70			.50	.38											.20	.20	.72		4.53	
Bustleton	Lower Del.	.01	.82	.17	.18	.45		.02						.59			.10	.35			.65								.20	.20	.24	.32		5.02
Carlisle	Lower Susq.	T.	.85		.80	.38	T.	.10	T.	T.				.25			.29	.68	.02		.44	.11		.05					.20	.20	.24	.32		4.10
Catawissa	N. Br. Susq.	.40			.60	.57	.04							.35			.03	.67	.50			.10	.15		.05					.12	.13	T.	.40	4.81
Center Hall	Susquehanna	.18		.48	.27		.24							.05	.35	.03	.67	.50			.10	.15		.05						.20	.20	.24	.32	4.11
Clearfield	W. Br. Susq.	T.		1.53	.30	.15	.02	T.	.05					.76		.02	.05	.55			.18	.54		.12					.27	.27	.07		4.17	
Coatesville	Lower Del.	.04	.89	.15	.38	.67	T.	.01						.35		.02	.05	.55			.32	.60		.10				.02	.20	.23	.07		4.90	
Colebrook	Lower Susq.	T.	1.16		.48	.72	T.	.10						.68		.20	.36				.14	.34		.26				.05	.17	.12	.25		4.71	
Cresson	Juniata	.25		.65	1.05	.04	.47	.19						.02	.35		.58	.57		.27	.27		.06	T.				.06	.23	.06	.39		5.32	
Doylestown	Lower Del.	T.	.85	.15	.14	.59		.03						.40			.21	.60				1.00							.28	.10	.10	.16		5.77
Driftwood	W. Br. Susq.	T.	.20	.10	T.	.10		.10	.15	T.	T.			.46			.25	.42			1.24		.07	.20					.16	.24	.10	.16		4.95
Emporium	W. Br. Susq.		.05		.10	.20	.23	.05	.03	.01	T.	T.		T.		.10	.20	.40			.10	.50	T.	.20					.10	.30	.10	.10		2.75
Ephrata	Lower Susq.														.35	.45	.48				.13	.16							.12	.43	.21	.10	.21	3.47
Everett	Juniata																																	
Freeland	Lehigh	.34	.71	.32	.64	.90	.10	.15	.14	.06				1.14	.82	T.	.36	1.92	.84										.38	.34	.18		11.34	
George School	Lower Del.	T.	.61	.58	.20	.43		.03						.37		.06	.03	.01		.58		.62	.58		.34	.46			.20	.31			3.20	
Gettysburg	Potomac	1.05	.08	.51	.55		.21	T.						.37			.37	.57											.11	.27	.03	.24	4.89	
Girardville	Schuylkill	.01	.26		.53	.39	.01	.02	.01					.51			.67	.20			.21	.27		.05	T.				.12	.02	.02	.32	3.77	
Gordon	Lower Susq.		.51		.54	.65		.18						.55			.22	.74			.07	.14							.18	.05	.02	.35	4.15	
Gouldsboro	Lehigh			.51		.35	.30		.28	.32				.61	.71	.35	.40								.06	.10				.12	.05	.02	.35	5.33
Grater's Ford	Schuylkill	.01	.97	.17	.42	1.48								.51			.22	.53				.71	.32		.15	.06				.10	.05	.25	.38	3.71
Hamburg	Schuylkill	.08	.52		.15	.25	.09	.05		.03				.27	.10		.50	.15	.06		.37	.13		.15	.03				.10	.05	.25	.38	3.71	
Hanover	Lower Susq.		.95	.24	.58	.70								.45			.20	.60			.25	.50	.05					.06	.28	.16	.28		5.26	
Harrisburg	do.	T.	.68		.55	.37	.04	.02	T.	T.				.08	.12		.55	.42			.40	.08		.06				.08	.15	.03	.03	.74	4.37	
Holtwood	Lower Susq.		.90	.34	.40	.26	.20	T.	T.	T.				.21					.37	.16		.36	.10	.10					.11	.22	T.		3.73	
Honesdale	Lackawaxen																																	
Huntingdon	Juniata	.40		1.16	.35	T.	.23	T.						.05	.44	T.		.46	.57			.78	.27		T.	.06			.07	.40	.21		5.67	
Jersey Shore	W. Br. Susq.		.35	.02	.35	.43	.02	.10	T.	T.				.53			.35	.65			.17	.20			.18				.40	.15	.43		4.32	
Karlsruhe	do.				.12									.40		.35	.45	1.20			.15	.75							.15	.55	.25	.18	.45	5.00
Kennett Square	Delaware																																	
Lancaster	Lower Susq.	1.39	.30	.54	.47									.15			.14	.66			.08	.75		.32					.31	.22		.31	5.64	
Lansford	Lehigh	.30	.08		.31	.23	.10	T.	.03	T.				1.00			.25	.66	.13			.08	.18	.10					.08	.14			3.56	
Lawrenceville	N. Br. Susq.	T.	.30	.30	.50			T.	T.	.10				.25		T.	T.				.05	.30		.15					.30	.10		.20	2.55	
Lebanon	Lower Susq.	.89		.40	.79	.10	T.							.36			.28	.70			.10	.34		.15					.24	.08		.26	4.69	
Lewisburg	W. Br. Susq.	.34		.70	.32		.07	.02						.63		T.	.50	.76			.20	.15		.01					.13	.17	.01	.36	4.37	
Lloyd	Pine Creek	.29	.03	.09	.38		.09	T.	.02					.72			.32	.43			.04	.36		.11	.05				.29	.29	.30	.11	3.63	
Lock Haven	W. Br. Susq.	.01	.22	.02	.40	.51	T.	.13	.05	T.				.42		.08	.09	.70	.01		.18	.32		.09	.02				.16	.24	.45		4.57	
Lykens	Susquehanna	.53		.50	.57	.01	.12	T.	.02					.43			.40	.39			.05	.27		.05	.02				.16	.04		.15	3.71	
Mauch Chunk	Lehigh	.58		.40	.55			.10	.13					.43			.40	.39			.08	.18		.13	.01				.12	.28	.25		4.47	
Media	Lower Del.																																	
Mifflintown	Juniata	.23	.05	.97	.29		.19		.02					.05	.41			.39	.75	.01		.48	.21		.11				.05	.11	.06	.30	4.68	
Montrose	Upper Del.	.70		.18	.78			T.						.50			.60				.87		.32							.18	.07		.27	5.56
Montrose	N. Br. Susq.	.17		.08	.53		.08	.04	.05					.74			.40				.42		.07	.13					.18	.23		.20	4.45	
Mount Pocono	Upper Del.	.40	.10	.60	.40		.20	.10	.12					.90			.40	.35			T.	.20	.16		.24				.40	.22	.03	.20	3.12	
Muncy Valley	W. Br. Susq.	.48		.22	.36		.14					</																						

Daily temperatures for April, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Atlantic Drainage.																																
Altoona.....	Maximum....	65	73	58	55	43	33	35	32	36	43	44	54	52	46	57	58	42	62	63	59	65	80	76	54	57	53	45	49	59	59	53.8
	Minimum....	40	50	39	37	35	21	28	21	23	19	23	32	28	30	33	41	36	33	38	41	48	45	47	40	29	33	41	37	38	45	35.0
Bethlehem.....	Maximum....	72	57	63	63	50	45	44	42	43	49	53	61	63	52	62	56	67	70	70	67	80	80	75	70	61	59	60	63	69	60.9	
	Minimum....	42	38	40	40	38	32	36	24	26	23	26	40	48	31	36	50	38	36	38	39	46	49	50	36	34	37	40	42	44	48	38.2
Bustleton.....	Maximum....	71	58	62	56	49	44	45	45	50	50	64	60	53	59	64	50	65	67	69	68	79	77	70	60	63	54	61	65	68	59.7	
	Minimum....	40	42	35	41	39	30	37	29	26	25	29	32	43	32	32	49	41	34	39	41	45	54	48	48	34	35	41	42	42	40	38.2
Carlisle.....	Maximum....	69	60	63	60	43	45	42	39	43	48	50	59	62	54	63	58	51	65	66	62	70	82	76	61	61	57	47	59	65	69	58.3
	Minimum....	37	45	41	40	35	28	33	27	24	22	27	32	40	35	31	47	40	35	40	40	47	52	54	50	35	32	43	44	44	42	38.1
Clearfield.....	Maximum....	71	75	56	45	54	58	50	34	38	46	50	56	50	47	52	55	47	68	70	62	63	85	78	70	64	58	51	51	61	61	57.5
	Minimum....	29	51	35	28	25	25	28	19	29	16	21	29	29	31	29	40	37	30	30	32	47	41	47	35	25	22	43	38	38	30	32.0
Emporium.....	Maximum....	70	71	56	44	47	38	35	33	35	40	44	55	50	45	50	50	50	63	66	58	63	76	72	51	55	58	51	51	56	61	53.1
	Minimum....	29	43	36	31	24	20	25	16	18	15	21	28	28	30	30	38	36	25	27	29	47	36	45	39	24	21	43	38	40	29	30.4
Everett.....	Maximum....	64	67	69	62	46	49	48	45	52	49	55	65	63	57	64	61	52	67	68	68	77	86	80	70	64	59	48	63	70	71	62.0
	Minimum....	39	52	40	40	38	27	35	27	25	22	25	31	40	33	31	52	40	36	36	36	45	49	54	50	34	34	43	44	43	45	38.2
Gettysburg.....	Maximum....	70	57	60	60	39	40	39	36	39	43	47	58	59	45	57	57	45	61	65	65	60	78	78	68	57	61	55	56	58	65	55.9
	Minimum....	32	44	37	33	36	26	28	23	17	15	21	27	36	34	24	44	40	28	32	29	45	48	48	44	32	25	41	42	38	30	33.3
Gordon.....	Maximum....	64	58	62	51	44	42	40	38	42	46	50	62	55	50	60	56	45	64	66	62	70	81	74	59	58	57	64	66	64	66	56.4
	Minimum....	46	45	44	40	31	29	32	28	30	28	33	35	38	37	36	44	41	41	45	44	47	55	52	46	38	43	44	45	48	48	40.1
Honesdale.....	Maximum....	79	58	64	68	47	48	49	46	47	51	50	65	60	56	63	64	57	65	68	69	72	80	80	78	64	61	57	62	67	69	62.1
	Minimum....	56	47	34	42	39	29	37	27	25	22	26	30	40	32	28	52	37	31	38	37	47	48	52	48	32	31	42	43	41	37	37.7
Lancaster.....	Maximum....	70	57	73	63	44	45	42	38	42	48	50	63	60	56	60	60	63	66	69	67	69	81	78	72	61	60	54	60	65	68	60.1
	Minimum....	38	42	37	40	38	28	32	26	24	23	27	32	40	35	30	49	51	31	51	31	45	51	49	49	34	32	42	42	42	40	37.7
Lock Haven.....	Maximum....	65	58	57	54	40	41	39	36	36	46	48	53	51	50	56	49	49	62	69	63	63	81	75	62	64	59	51	57	57	50	54.7
	Minimum....	35	50	37	33	34	25	30	20	21	20	25	30	34	34	30	38	37	32	33	36	37	46	54	45	30	30	44	45	41	36	34.7
Mauch Chunk.....	Maximum....	66	50	63	52	46	43	43	36	41	50	52	55	55	51	61	55	47	64	68	69	62	80	74	59	60	62	50	60	60	70	56.8
	Minimum....	35	42	40	37	35	29	31	20	21	20	24	28	38	34	26	41	39	32	34	32	44	53	49	44	33	33	41	41	43	35	35.1
Mifflintown.....	Maximum....	67	58	58	58	46	38	40	39	39	49	49	52	51	49	55	54	45	61	64	64	66	81	77	53	60	57	46	51	61	65	55.1
	Minimum....	33	49	43	42	35	25	30	23	22	18	23	28	36	35	26	43	40	26	32	37	46	52	51	46	34	32	43	42	42	38	35.6
Milford.....	Maximum....	70	69	62	59	58	42	43	39	41	53	53	54	55	52	60	57	56	65	69	71	65	75	72	71	58	63	59	61	58	68	59.3
	Minimum....	29	35	26	32	32	24	27	19	14	14	24	25	34	31	24	40	35	25	26	27	42	45	43	40	29	25	39	37	37	29	30.3
Montrose.....	Maximum....	72	62	55	49	44	35	35	32	35	45	45	50	51	46	53	49	54	60	62	65	55	67	68	48	50	57	54	54	49	61	52.1
	Minimum....	48	46	30	30	30	20	27	12	25	19	20	29	32	32	38	33	40	42	32	51	41	43	45	35	36	25	38	38	32	32	33.6
Muncy Valley.....	Maximum....	74	63	64	56	52	41	42	37	41	46	50	55	61	51	60	56	54	65	69	66	56	79	78	63	64	66	54	58	59	65	58.2
	Minimum....	53	49	29	33	35	32	29	16	19	18	21	28	34	32	26	35	36	30	56	30	46	38	51	40	26	27	42	43	40	29	34.1
Narberth.....	Maximum....	71	58	64	50	47	45	46	41	46	49	52	67	60	53	61	66	49	64	67	68	69	79	79	68	60	62	47	63	65	70	59.5
	Minimum....	42	43	37	40	37	29	35	29	25	26	30	34	40	34	32	49	41	33	42	43	45	55	52	49	36	37	42	42	43	46	38.9
Philadelphia.....	Maximum....	70	67	65	49	51	46	47	43	48	51	52	66	61	54	61	66	49	65	69	68	71	80	80	62	61	61	49	63	67	69	60.4
	Minimum....	49	44	47	41	37	33	37	32	32	33	36	41	41	38	40	45	42	42	47	48	46	56	52	47	40	43	42	44	47	51	42.4
Reading.....	Maximum....	70	55	62	51	47	44	43	38	42	49	49	64	57	52	60	64	45	64	69	66	68	80	76	61	60	61	48	59	64	67	57.8
	Minimum....	46	43	43	41	32	30	34	28	29	27	31	39	38	36	39	44	42	35	45	43	46	56	50	44	36	39	42	43	44	49	39.8
Scranton.....	Maximum....	70	54	60	47	46	39	40	35	38	47	48	56	56	49	57	53	48	62	65	69	60	73	72	52	53	63	47	58	56	62	54.5
	Minimum....	44	42	38	36	30	26																									



Daily precipitation for April, 1920. - Continued from page 29.

Stations.	Watershed.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Davis Isl. Dam	Ohio			T.	.07	.08	.01	.17	.02	T.	T.			.13	.01	T.	.74	.77	.08	.03		.99	.11	.10	.15			.24	.38	.19			4.27	
Derry	Conemaugh	.04			.02	.28	.33	.07	.07	.03				.03			1.03	.63			.40	.31		.24	.11		.11	.54	.04		.25		4.53	
Ebensburg	Conemaugh		.06	.03	.45	.34	T.	.42					T.	.43			.50	.52			.64	.56		.10	.32		.05	.35	.18	.15	.11		5.22	
Edinboro	Allegheny	T.	T.		.13	.03	.03	.03	.15	.07				.50	.11		.32	.30	.31		.06	.48		.45			.02	.75	.09		.21		4.04	
Elk Lick	Youghiogheny	T.	.65		.37	.60	T.	T.	.29				.03	.19	T.	T.	.45	.32	.04	.32	.48	.77		.30	.07		.28	.18	.13	.03	.25		5.25	
Falls Creek	Allegheny			.17	.20	.08	.02	.02	.02					.03		.03	.05	.28	.64			.25	.71		.26	.18		.38	.34	.04	.53		4.20	
Franklin	Allegheny			.08	.07	.30	.03	.10	.06	.04	T.	T.	T.	.32	T.	T.	.71	.60	.06					.28	.42	.10	.24		.18	.57	.18		4.34	
Freeport	Allegheny				.10	.19	T.	.04	T.	T.				.12	T.		.66	.68	.06		1.20	.12	.08	.15			.23	.58	.21			4.42		
Greensboro	Monongahela	T.	.08		.20	.60	.06	.26	.03	T.				.32		T.	.04	.26	T.	.32		.90		.32	.10			.24	.16	.06	.04		3.89	
Greensburg	Youghiogheny	T.	.01		.23	.25	.03	.05	.04	T.				.12	T.	T.	.78	.58		.03	.41	.38		.44	.05		.10	.82	.07	T.	.30		4.69	
Greenville	Beaver													.01	.09		.03	.66	.43			.50	.41		.24	.02		.36	.12	.12	.33		3.76	
Grove City	Youghiogheny		.03			.07	.09	.13	.06	.06				.09	T.		.75	.68	.11	.02		.98	.19	.07	.08			.21	.39	.10			4.09	
Herr's Isl. Dam	Ohio	T.	T.		.10	.11	T.	.20	.01	T.	T.						.60	.60			.80		.60	.40			.30	.36	T.		.32	.06	5.34	
Indiana	Conemaugh	T.			.25	.49	.25	.21									.75	.65		.01	.53	.47		.21	.07		.06	.86	.04	T.	.15		4.43	
Irwin	Youghiogheny				.15	.16	.10	.08	.04	T.				.20	.12	T.	T.	1.05	.41		.52	.27		.36	.04		.20	.46	.08		.40		5.86	
Johnstown	Conemaugh	.01	.25		.82	.23	.18	.20	.06	T.				.03	.09		.04	.58	.46		.05	.47		.27	.22		.47	.34	.16	.18			4.24	
Ketner	Allegheny			.12	.56	.02	.06	.08	.03					.03	.09		.04	.58	.46					.33			.30	.33	.01				3.80	
Linesville	Beaver	T.	T.	T.	.18	.03	.09	.06	.01	T.				.10	.48	T.	.39	.44	.03		.83	.10	.04	.33			.29	.55	.03	T.			3.62	
Lock No. 4	Monongahela	T.	T.		.18	.08	.03	.17	.02	.01				.16	T.		.22	.45	.09	.13	T.	.70	.18	.27	.06			.60	T.		.04		3.80	
Lycippus	Conemaugh	T.	.10		.22	.35	.09	.03	.21					.30			.50	.40	.06		.37	.30		.11			.19	.58	.15				4.91	
Mosgrove	Allegheny			.05	.20	.03	.16	.03						.03			.46	.41	.08		1.83	.30	.18	.23				.60	T.		.04		3.80	
New Castle	Beaver		.09	.05			.08	T.	.05					.20	.10	.03	.62	.71	.01		1.78	.18	.11	.15			.17		.22	.01	.42		5.20	
North Shengano	Beaver			.10					.05					.63			.46	.43				.18	.65		.16			.14	.22		.32		3.34	
Parkers Landing	Allegheny	T.	T.		.03	.16	.02	.06	.03	.04				.10		T.	.70	.78	.05		.62	.30	.17	.21			.22	.35	.18				5.28	
Pennline	Beaver			.12	.07	.11	.01	.01	T.					.05	.64		.36	.41			.54	.36	.06	.29			.25	.26	.03				3.59	
Pittsburgh	Ohio	T.	T.		.12	.07	.11	.01	.01	T.				.07	.02		.06	.23	.40	.01		.78	.45	.09	.01		.10	.48	.09		.22			4.42
Ridgway	do.			.11	.42				.15	.10	T.			.30	.25		.21	.55	.44		.09		.58				.48	.33	.07	.31			3.59	
Saegerstown	do.			.05										.30	.25		.20	.33	.38		.10	.67		.40	.05		.03	.75	.22	.04	.40		4.42	
Saltsburg	Conemaugh	T.		.14	.17	.09	.29	.03	T.					.14			.57	.72	.15		1.05	.27	.14	.22			.14	.60	.14				4.86	
Shanksville	Conemaugh					.05	.01	.38	.04	.02				.36	.01		.68	.60	T.		.68	.12	.03	.40			.12	.32	.16				3.98	
Sharon	Beaver				.40	.90	.40	.30	.05					.10	.20	.15	.52	.35	.12	.05	.48	.26		.22	.08		.20	.50	.71	.05	.52		6.56	
Somerset	Youghiogheny				.12	.19	T.	.17	.02	.01				.07	T.		.65	.69	.07		1.10	.13	.12	.18			.19	.61	.11				4.43	
Springdale	Monongahela					.16	.08	T.	.05	.06				.75			.37	.34			.95		.10	.28			.31	.33	.10				3.88	
Summit	Beaver						.04		.04					.50			.45	.45			.78		.09	.34			.18	.27	.17				3.45	
Turnerville	do.	.10							.04					.50			.45	.45			.78		.09	.34			.18	.27	.17				4.88	
Uniontown	Monongahela		.17		.43	.50	.30		.03					T.	.42		.17	.27	T.	.51	.74	.08		.35	.04		.10	.50	.04		.23		4.39	
Vandergrift	Conemaugh				.13	.18	.03	.14	.01					.07			.77	.53			.82	.42		.20	.10		.03	.45	.24		.26		4.01	
Warren	Allegheny			.18		.08	.25	.15	.18	.17	.09			.02	.13		.20	.42	.24		.08	.10		.25	.22		.05	.46	.41	.18	.15		3.67	
Westford	Beaver			.01	T.	.08	.07	.05						.59			.42	.42	T.		.72	.12	.10	.37	T.		.27	.20	.20				3.84	
West Newton	Youghiogheny		.01	T.	.10	.17	.03	.17	.05	.02				.18			.22	.57	.13	.05		.68	.16	.33	.03			.24	.64	.06				
Lake Drainage.																																		
Erie	Lake Erie		.06		.15	.01	T.	.02	.09	.03		T.	.72	.01		.49	.10	T.			.02	.16	.02	.10			.07	.84	.02		.18		3.09	
West Bingham	Genesee	T.	T.		.20	.45	.10	.05	.10	.05				T.	T.		.10	.28	.10		.25	.12		.20	.04		T.	.30	.33		.22		2.89	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T, (trace) when precipitation is less than .01 inch. § Incomplete or missing.

05-
UNP

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

UNIVERSITY OF PENNSYLVANIA LIBRARY

MAY 18 1920

CLIMATOLOGICAL DATA

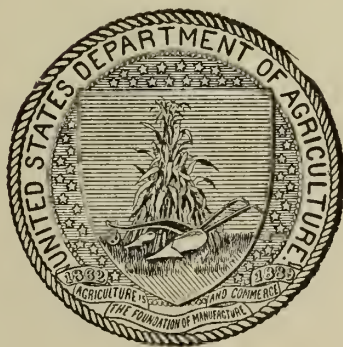
PENNSYLVANIA SECTION

MAY, 1920.

BY

GEORGE S. BLISS

METEOROLOGIST



PHILADELPHIA, PA.
WEATHER BUREAU OFFICE
JUNE 14, 1920.

Shaded portions show excess (+)
 Unshaded portions show deficiency (-)
 Lines show amount of excess or deficiency.

W.T.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

VOL. XXV. PHILADELPHIA, PA., MAY, 1920. No. 5.

GENERAL SUMMARY.

State averages showed a marked deficiency in both temperature and precipitation. The average temperature was not so low as in 1917, but the average rainfall was the lowest since 1911. There had been so much rain late in April and on May 1 that the deficiency in rainfall did not produce any unfavorable conditions until near the close of the month, when the top soil became dry enough to check the growth of many kinds of vegetation.

The excess of moisture in the soil interfered greatly with planting operations during the first week. At the same time the weather was unseasonably cold, and frosts occurred extensively from the 3d to the 6th. The lowest temperatures of the month occurred about this time, which at many stations exceeded all May records for a good many years; but vegetation was in so backward a condition that little or no injury resulted.

After the first week the weather conditions were much more favorable for farm work and for the growth of crops. Rains came during the second and third weeks with barely sufficient frequency to keep a satisfactory amount of moisture in the soil, and after the 25th there was practically no rain. This enabled farmers to make good progress with spring work.

At the close of the month most crops were in a healthy condition and growing well, but were about two weeks less advanced than usual at that time of the year. The principal exception was wheat, which appeared short and uneven, almost nowhere indicating any possibility of a yield equal to the average. Strawberries began to ripen toward the end of the month, but their size was quite small on account of the lack of rain at that time.

TEMPERATURE.

The average temperature for the State, as determined from the records of 76 stations, was 56.6°, or 3.2° below the May normal. The highest average was 60.4° at Philadelphia, and the lowest was 49.3° at Honesdale. The highest of the daily maximum temperatures were mainly in the eighties, only six of the stations reporting temperatures of 90° or over. The maximum for the State was 92° at Indiana on the 30th. Freezing temperatures were recorded by all but a few stations in the southeastern part of the State. In the eastern half of the State the lowest temperatures occurred from the 2d to the 6th, but in some western counties the minimum for the month did not occur until the 14th, 15th or 16th. The lowest temperature recorded in the State was 18° at West Bingham on the 5th.

PRECIPITATION.

The average rainfall, as determined from the records of 125 stations was 2.02 inches, or 1.81 inches less than normal. The principal wet period centered on the 12th to 14th, although at quite a number of stations light rains set in on the 11th. At most places, however, the period of heavy rainfall did not extend beyond 24 hours. The monthly rainfall was quite uniformly light, the greatest total being 3.65 inches at Uniontown. Even at this station the amount was less than the May normal. The smallest total rainfall in the State was 0.67 inch at Creekside. Snow was reported from only four stations, Bradford, Mount Pocono, Wellsboro and West Bingham, at each of which places the amount was only a trace.

G. W. M.

BAROMETRIC PRESSURE AND WINDS.										
Stations.	In inches, reduced to sea level.					Total move- ment, in miles.	Velocity, in miles per hour.			
	Average.	Highest.	Date.	Lowest.	Date.		Average.	*Highest.	Direction.	Date.
Erie.....	30.08	30.54	16	29.82	9	7,327	9.8	37	w.	9
Harrisburg.....	30.08	30.55	16	29.77	13	4,495	6.0	28	n.	8
Philadelphia.....	30.09	30.51	17	29.62	1	7,280	9.8	31	n.	1
Pittsburgh.....	30.07	30.53	16	29.71	13	7,779	10.5	33	nw.	1
Reading.....	30.07	30.54	16	29.64	1	4,568	6.1	28	nw.	1
Scranton.....	30.08	30.55	16	29.71	1	4,731	6.4	34	w.	10

* For any five-minute period.

SUNSHINE AND HUMIDITY.									
Stations.	Sunshine.					Humidity.		Fog.	
	Total hours of Sunshine	Number of hours possible.	Percentage of possible.	Number of days with.		Average per cent.		Number of days with.	
				80 per cent or more.	20 per cent or less.	8 a. m.	8 p. m.	Light fog.	Dense fog.
Erie.....	362.0	451.8	80	20	2	64	59	1	1
Harrisburg.....	323.1	446.2	72	16	12	64	51	1	1
Philadelphia.....	299.4	446.2	67	14	5	64	55	1	0
Pittsburgh.....	327.0	449.0	73	19	1	62	46	0	0
Reading.....	291.5	446.2	65	14	5	64	54	2	0
Scranton.....	.....	.....	.....	6	11	74	56	14	0

COMPARATIVE DATA FOR MAY.									
Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	57.3	91	24	4.24	8.41	2.26	.....	.....	.....
1889.....	60.4	96	25	5.91	12.41	2.51	.....	.....	.....
1890.....	58.5	89	23	6.71	12.41	2.96	7	11	13
1891.....	57.3	93	20	2.12	4.41	0.31	10	10	11
1892.....	58.5	91	28	5.70	9.30	3.77	7	10	14
1893.....	57.9	93	26	5.54	9.20	2.92	11	8	12
1894.....	60.8	92	27	8.88	15.02	2.72	9	8	14
1895.....	60.6	110	22	2.68	6.46	0.86	13	10	8
1896.....	65.4	98	31	2.85	6.30	1.19	10	12	9
1897.....	57.7	88	25	5.24	10.05	1.71	11	10	10
1898.....	60.0	94	22	5.11	10.15	2.79	8	9	14
1899.....	61.1	100	24	3.82	6.40	1.15	10	11	10
1900.....	60.4	96	20	2.79	7.63	0.72	13	9	9
1901.....	58.9	91	28	5.56	7.96	2.24	8	9	14
1902.....	59.8	95	25	1.96	4.45	0.29	13	11	7
1903.....	61.8	94	18	1.67	4.65	0.22	16	9	6
1904.....	61.6	94	21	3.78	7.50	2.07	12	10	9
1905.....	60.8	93	22	2.59	5.17	0.56	11	9	11
1906.....	60.0	99	23	3.23	5.59	0.93	12	10	9
1907.....	54.8	91	19	3.08	6.38	1.44	11	9	11
1908.....	61.2	96	22	6.28	10.95	3.19	10	10	11
1909.....	59.2	92	23	2.90	5.52	1.51	12	10	9
1910.....	56.8	88	24	3.38	6.08	1.73	11	10	10
1911.....	65.2	99	20	1.97	6.81	0.42	17	10	4
1912.....	61.2	91	28	3.15	5.99	0.99	14	8	9
1913.....	58.5	93	21	3.86	6.45	0.48	13	8	10
1914.....	61.5	96	19	3.34	6.52	0.90	16	9	6
1915.....	56.2	84	21	4.16	7.45	2.29	10	8	13
1916.....	61.0	93	26	3.19	6.09	1.49	12	11	8
1917.....	63.3	90	20	3.39	8.09	1.65	9	10	12
1918.....	65.1	95	21	5.04	8.37	1.81	13	12	6
1919.....	59.5	98	27	5.80	13.50	2.86	13	7	11
1920.....	56.6	92	18	2.02	3.65	0.67	17	8	6

RIVER CONDITIONS.									
Stations.	Rivers.	Mean stage.		Highest stage.		Lowest stage.		Flood stage.	
		Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.		
Port Jervis.....	Delaware.....	3.6	4.5	13	2.7	31	18		
Phillipsburg.....	Delaware.....	3.5	4.6	1	2.2	31	22		
Mauch Chunk.....	Lehigh.....	4.6	5.0	14	4.2	5	15		
Wilkes-Barre.....	Susquehanna.....	5.4	8.0	1	3.6	30	20		
Williamsport.....	Susquehanna.....	3.5	6.2	3	2.0	31	20		
Harrisburg.....	Susquehanna.....	4.9	6.1	2	4.1	31	17		
Freeport.....	Allegheny.....	5.9	10.6	1	3.7	31	22		
West Newton.....	Youghiogheny.....	2.2	5.1	2	0.9	31	23		
Greensboro.....	Monongahela.....	8.6	12.9	2	7.3	8	18		
Pittsburgh.....	Ohio.....	6.0	9.5	2	4.5	13	22		
Beaver Dam.....	Ohio.....	10.0	16.2	2	7.3	12	27		

Climatological data for May, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 01 in. or more.	Clear.	Pt. cloudy.			Cloudy.	
Atlantic Drainage.																					
Altoona.....	Blair.....	1,615	22	56.2	-3.2	83	28	30	5	39	1.65	-2.32	0.51	0	10	14	14	3	w.	Lewis E. Biller.	
Bethlehem.....	Northampton.....	205	19	59.4	-3.6	85	28	34	3	34	2.35	-1.39	0.53	0	6	5	22	4	sw.	Prof. Chas. H. Rominger.	
Bustleton.....	Philadelphia.....	125	52	57.8	.....	82	28	32	6	35	3.57	.....	1.07	0	8	17	7	7	sw.	Experiment Station.
Carlisle.....	Cumberland.....	467	52	58.2	-2.0	87	28	32	2	37	2.17	-1.67	0.72	0	8	19	2	10	ne.	Prof. C. E. Miller.	
Catawissa.....	Columbia.....	520	22	58.0	-3.4	90	28	29	2	44	1.77	-1.90	0.63	0	8	23	3	5	w.	H. H. Yetter.	
Center Hall.....	Center.....	1,272	21	56.9	-2.9	87	27	30	2	41	1.64	-2.03	0.48	0	8	22	7	2	sw.	S. W. Smith.	
Clearfield.....	Clearfield.....	1,120	9	56.9	-3.4	90	27	26	5	51	1.69	-3.01	0.90	0	5	23	5	3	w.	E. W. Hess.	
Coatesville.....	Chester.....	380	31	58.9	-2.8	85	28	33	3	38	2.87	-1.21	0.84	0	9	12	13	6	s.	Prof. W. T. Gordon.	
Colebrook.....	Lebanon.....	560	3	57.0	.....	85	28	30	2	36	2.99	.....	0.82	0	10	19	3	9	n.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	31	53.7	-5.0	83	27	22	2	50	1.54	-2.90	0.65	0	6	16	9	6	w.	T. B. Lloyd.	
Ephrata.....	Lancaster.....	866	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacob Eichelberger.
Everett.....	Bedford.....	1,080	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. C. Matten.
Freeland.....	Luzerne.....	.....	12	56.6	.....	82	28	30	2	29	2.68	.....	0.72	0	13	12	10	9	nw.	Theo. Reichman.
George School.....	Bucks.....	190	12	57.4	-3.6	86	28	30	6	39	3.05	-0.49	1.00	0	11	26	2	3	sw.	Prof. N. W. Swayne.	
Gettysburg.....	Adams.....	600	43	59.1	-2.2	89	28	32	3	39	2.75	-1.18	1.25	0	10	18	5	8	e.	Col. E. B. Cope.	
Gordon.....	Schuylkill.....	840	15	54.0	-4.5	86	28	25	5	42	2.51	-1.29	0.65	0	8	19	6	6	n.	Capt. J. G. Johnson.	
Hamburg.....	Berks.....	380	25	57.4	-4.3	85	28	32	2	34	1.77	2.84	0.75	0	8	22	6	3	sw.	State Sanatorium.	
Hanover.....	York.....	600	15	57.7	-6.2	84	28	33	2	32	2.35	-0.81	1.05	0	10	20	5	6	s.	Miss Olive M. Ryder.	
Harrisburg.....	Dauphin.....	361	31	59.0	-3.1	85	28	39	2	30	1.34	-2.44	1.10	0	8	10	8	13	n.	U. S. Weather Bureau.	
Honesdale.....	Wayne.....	1,150	.....	49.3	.....	70	21	27	5	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	George Stiles.
Huntingdon.....	Huntingdon.....	650	31	57.5	-3.2	87	28	27	2	44	1.97	-2.33	0.68	0	10	19	6	6	w.	Prof. W. J. Swigart.	
Kennett Square.....	Chester.....	126	27	57.4	-3.9	81	28	33	2	34	3.23	-1.15	0.95	0	7	13	15	3	ne.	W. P. Mercier.	
Lancaster.....	Lancaster.....	255	16	57.9	-3.1	86	29	30	2	39	2.81	-0.49	1.08	0	6	18	9	4	w.	Supt. of Water Works.	
Lawrenceville.....	Tioga.....	1,000	21	54.8	-2.7	90	31	24	5	43	1.70	-2.07	0.90	0	4	16	7	8	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	30	58.3	-2.7	87	28	31	2	37	1.32	-2.77	0.62	0	7	24	6	1	s.	S. B. Benzing.	
Lewisburg.....	Union.....	450	44	57.4	-1.1	88	27	29	3	45	2.03	-1.91	0.69	0	10	15	8	1	sw.	Prof. W. G. Owens.	
Lock Haven.....	Clinton.....	560	31	56.4	-5.5	89	28	30	2	42	1.79	-1.90	0.43	0	10	13	11	7	w.	Prof. J. A. Robb.	
Lykens.....	Dauphin.....	680	4	57.2	.....	88	28	27	2	44	2.17	.....	0.54	0	11	19	8	4	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	29	57.6	-3.4	86	28	30	5	40	1.81	-2.24	0.59	0	9	14	9	8	w.	F. C. Wintermute.	
Media.....	Delaware.....	103	4	.....	.....	80	31	.....	.....	.....	2.11	.....	1.18	0	4	22	3	6	sw.	North Springfield Water Co.
Mifflintown.....	Juniata.....	445	15	55.5	-5.2	85	27	25	5	46	2.18	-1.45	0.52	0	10	13	9	9	nw.	Wellington Smith.	
Milford.....	Pike.....	500	16	54.0	-3.5	86	28	21	2	44	1.90	-1.13	0.95	0	3	21	7	3	w.	J. H. Van Etten.	
Montrose.....	Susquehanna.....	1,658	16	53.0	-2.0	82	27	28	3	32	1.90	-1.84	0.80	0	6	18	7	6	w.	Silas Jagger.	
Mount Pocono.....	Monroe.....	1,720	17	51.0	-3.7	76	29	22	5	38	1.36	-2.30	0.28	T.	10	6	11	14	nw.	Cecil J. Hoskinson.	
Muney Valley.....	Sullivan.....	1,045	7	56.0	.....	87	28	26	2	43	1.69	.....	0.51	0	5	17	6	8	.....	U. S. Weather Bureau.
Narberth.....	Montgomery.....	300	.....	58.2	.....	85	28	34	2	34	3.50	.....	0.96	0	11	14	6	11	sw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	3	57.4	.....	85	28	30	2	37	3.64	.....	1.39	0	11	17	5	9	n.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	2	57.8	.....	85	28	31	5	43	1.97	.....	1.04	0	7	21	6	4	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	47	60.4	-2.8	82	28	42	3	28	2.15	-1.55	0.83	0	9	13	6	12	s.	U. S. Weather Bureau.	
Philadelphia (d).....	Philadelphia.....	12	3	59.6	.....	83	28	41	2	33	3.16	.....	0.83	0	11	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	8	60.2	.....	89	28	36	2	35	2.54	.....	1.10	0	7	15	16	0	nw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	32	56.9	-2.7	87	28	28	5	38	2.58	-1.49	0.49	0	10	17	10	4	sw.	John E. Benner.	
Reading.....	Berks.....	325	47	59.6	-2.3	85	28	38	5	28	1.39	-2.43	0.88	0	13	12	6	13	n.	U. S. Weather Bureau.	
Sadsburyville.....	Chester.....	649	.....	59.2	.....	86	28	36	2	32	2.87	.....	0.86	0	8	13	7	11	ne.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	23	57.2	-2.3	85	27	34	5	35	2.48	-0.54	1.25	0	8	7	13	11	nw.	U. S. Weather Bureau.	
Sellersville.....	Snyder.....	455	30	58.2	-2.9	87	28	28	3	40	1.94	-2.16	0.44	0	7	1	20	10	nw.	J. M. Boyer.	
Shawmont.....	Philadelphia.....	51	23	60.0	.....	85	28	35	6	32	2.87	-0.54	0.80	0	9	18	7	6	se.	W. S. Guiles.
State College.....	Center.....	1,217	31	55.0	-4.0	82	28	31	3	32	1.67	-2.26	0.57	0	7	18	11	2	s.	Prof. Wm. Frear.	
Stroudsburg.....	Monroe.....	500	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. Clyde Le Bar.
Towanda.....	Bradford.....	754	24	53.8	-0.1	83	27	28	6	41	1.36	-1.82	0.53	0	7	11	16	4	n.	Hiram E. Bull, C. E.	
Wellsboro.....	Tioga.....	1,419	39	52.0	-4.8	84	27	22	5	48	1.57	-2.45	0.71	T.	4	27	2	2	w.	George W. Hill.	
West Chester.....	Chester.....	455	64	57.6	-3.1	85	28	33	12	45	3.35	-1.08	0.90	0	8	16	5	10	nw.	J. C. Green, D. D. S.	
Williamsport.....	Lycoming.....	521	29	58.4	-2.3	88	28	32	5	37	1.79	-1.24	0.67	0	9	17	6	8	nw.	Jacob April.	
York.....	York.....	400	19	57.0	-4.7	84	28	29	3	37	2.23	-1.14	0.95	0	9	15	9	7	w.	York Water Co.	
Ohio Drainage.																					
Beaver Dam.....	Beaver.....	700	5	58.8	89	30	30	15	39	2.66	-0.39	1.36	T.	0	8	14	6	11	ne.	U. S. Engineer.
Bradford.....	McKean.....	1,427	2	53.1	88	27	23	16	55	1.46	0.51	T.	0	10	16	9	6	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	.....	53.6	.....	86	30	23	15	48	2.50	.....	1.30	0	7	20	6	5	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	8	52.8	.....	87	30	23	3	54	1.54	-2.09	0.63	0	5	25	4	2	.....	John Fawcett.
Clarion.....	Clarion.....	1,500	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	N. A. Goble.
Claysville.....	Washington.....	1,150	15	58.5	-2.8	90	30	26	15	43	1.72	-1.74	0.57	0	6	14	13	4	w.	E. T. Buchanan.	
Derry.....	Westmoreland.....	1,172	22	57.9	-3.6	91	30	25	3	51	2.09	-1.33	0.46	0	9	24	1	6	w.	Miss N. Dixie Wineman.	
Ebensburg.....	Cambria.....	2,000	.....	52.6	.....	81	27	23	5	44	2.50	.....	0.82	0	8	24	6	1	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	.....	53.2	.....	82	28	24	3	41	2.75	.....	1.25	0	8	16	10			

Daily precipitation for May, 1920.

Stations.	Watershed.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh					.08		.20		.16			.27	.06						.98			.30	.12			.61						2.48	
Altoona	Juniata	.37									.16	.14	.51	.05						.03		.01	.30			.07	.01						1.65	
Ansonia|||	Pine Creek	.41							T.	.02	.43	.17	T.	.11	T.								.18	.15									1.41	
Arendtsville	Potomac	.20							.13				.21	1.12	.03						.18	.03	.35			.06							2.31	
Austin	W. Br. Susq.																																	
Bellefonte	do.	.24										.35	.54													.56							1.69	
Bethlehem	Lehigh							.48				.49	.25	.32									.28	.53									2.35	
Blosserville	Lower Susq.	.25						T.	T.		.10		.70										.30			.10							1.45	
Bustleton	Lower Del.	1.07						.93				.22	.76	.26									.01	.28		.04							3.57	
Carlisle	Lower Susq.	.72						.14				.20	.64	.10	T.						.07	T.	.23			.07							2.17	
Catawissa	N. Br. Susq.	.20						.25				.24	.03	.60	.01							T.	.41			.03							1.77	
Center Hall	Susquehanna	.12							.25			.10		.48	.46						.06	.02	.18			.22							1.64	
Clearfield	W. Br. Susq.	.06									T.	.40		.28	.05										.90								1.69	
Coatesville	Lower Del.	.66						.78			.03	.25	.84	.15									.08	.02				.06					2.87	
Colebrook	Lower Susq.	.82						.61	.04		.02	.12	.47	.13							T.	T.	.71			.01	.06						2.99	
Cresson	Juniata	.45										.35	.55	.13						.03		T.	.20			.05	.03						1.79	
Doylestown	Lower Del.	.61			T.			T.	.42			.06	.10	.40	.28								.10	.19			.03	.16					2.35	
Driftwood	W. Br. Susq.																																	
Emporium	W. Br. Susq.										T.																							
Ephrata	Lower Susq.										T.	.65		.06	.08					.03	T.		.26			.46							1.54	
Everett	Juniata																																	
Freeland|||	Lehigh	.22				T.			.08		.01	.32	.58	.34	.06								.10	.72	.14		.06	.04	.01				2.68	
George School	Lower Del.	1.00	.01					.82				.63	.27										.01	.21	.01	.01	.02	.06					3.05	
Gettysburg	Potomac	.23						.27	.16			.07	1.25	.03							.01		.60			.03		.10					2.75	
Girardville	Schuylkill	.15						.22				.28	.45	.18									.30	.13									1.71	
Gordon	Lower Susq.	.48			T.			.35			.10		.65	.18								.05	.65			.05							2.51	
Gouldsboro||	Lehigh	.92				.09			.09	.10		.34	.61	.19								.12	.06	.51			.09		.05				3.17	
Grater's Ford	Schuylkill	.83					.02	.65				.15	.48	.35									.20	.22			.11						3.01	
Hamburg	Schuylkill							.20	.02	T.	.10	.10	.25	.15								.20	.75										1.77	
Hanover	Lower Susq.	.32						.17	.16			.07	1.05	.09									.38	.03		.03		.05					2.35	
Harrisburg***	do.	.36						.08			.08	.19	.24	.07							T.	T.	.30			.02		T.					1.34	
Holtwood||	Lower Susq.	.53						.48	.57			.19	.74	.11							.04			.05			.03	.02					2.76	
Honesdale	Lackawaxen																																	
Huntingdon	Juniata	.68									.07	.11	.46	.03							.04	.03	.05	.39		.11							1.97	
Jersey Shore	W. Br. Susq.	.05						.10			.10	.38	.02	.39	.03								.35			.27		.05					2.92	
Karlsruhe	do.										.60		.05	T.	.48								.20			.40							1.25	
Kennett Square	Delaware	.68						.69				.28	.95	T.		.48								.07			.08						3.23	
Lancaster	Lower Susq.	.85						.34					1.08	.26									.13	.15									2.81	
Lansford|||	Lehigh	.36							.13			.22	.57	.16									.34	.07		.04	.03						1.92	
Lawrenceville	N. Br. Susq.	.20							T.	.13			.22	.57	.16								.15	.45									1.70	
Lebanon	Lower Susq.	.62						.05	.03		T.	.90		.32	.08								.07			T.							1.32	
Lewisburg	W. Br. Susq.	.21						.27				.23	.05	.69	.07							.04	.37	.01		.09							2.03	
Lloyd	Pine Creek							.36				.61	.06										.33			.28							1.64	
Lock Haven	W. Br. Susq.	.15							T.	.12	.02	.34	.04	.43	.04						T.		.22	.36	.07	.12							1.79	
Lukens	Susquehanna	.54						.15	.12			.04	.12	.38	.14							.07	.24	.35		.02							2.17	
Mauch Chunk	Lehigh	.09						.08				.22	.02	.59	.11								.55			.05	.10						1.81	
Media	Lower Del.											* 1.18	.60	.28													.05						2.11	
Millintown	Juniata	.32						.05	.01			.05	.10	.52	.32							.17	.54			.10							2.18	
Milford	Upper Del.							T.	.33			.62																					1.90	
Montrose	N. Br. Susq.	.40						.26		.03	.80		.15																				1.90	
Mount Pocono	Upper Del.			T.				.10	T.	.06	.15	.20	.28	.15								.02	.15	.10		.15							1.36	
Muncy Valley	W. Br. Susq.	.21						.17				.41		.39									.51										1.69	
Narberth	Lower Del.	.70		T.	T.			.77			.05	.26	.96	.23									.01	.24	T.	.01	.07	.20					3.50	
Neshaminy|||	Lower Del.	1.39						.21	.59	T.		.19	.66	.17	.17									.16	T.	.02	.03	.05					3.64	
Palmerston	Lehigh	.06						.07				.46	.08									.24	1.04			.02							1.97	
Philadelphia (a.)	Lower Del.	.03		T.	T.			.83			.13	.38	.32	.16								.14			T.	T.	.04	.12					2.15	
Philadelphia (d.)|||	do.	.63			T.			.35	.48			.30	.80	.03	.20							.03	.13			.03	.18						3.16	
Phoenixville	</																																	

Daily temperatures for May, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.		
Atlantic Drainage.																																		
Altoona.....	Maximum...	57	55	59	59	61	68	68	69	67	75	74	62	55	53	58	65	68	72	67	76	75	77	74	65	68	74	82	83	79	82	80	68.6	
	Minimum...	39	33	31	33	30	32	41	45	38	52	49	45	46	40	32	34	37	47	55	54	58	46	45	54	50	46	51	52	45	43	53	43.7	
Bethlehem.....	Maximum...	64	61	64	62	63	70	70	64	70	80	79	68	68	58	64	69	72	74	76	75	80	76	65	71	75	82	85	84	80	78	71.7		
	Minimum...	44	42	34	40	34	36	44	46	44	52	49	51	46	44	38	40	42	48	54	58	60	54	50	51	54	46	49	51	54	56	50	47.1	
Bustleton.....	Maximum...	60	57	61	61	63	67	65	58	69	79	77	67	63	55	62	68	70	72	73	73	75	78	74	60	71	75	80	82	82	81	78	69.5	
	Minimum...	45	33	36	43	34	32	45	49	42	50	47	48	46	38	40	40	40	50	55	59	55	52	49	52	56	47	48	55	50	45	46	46.9	
Carlisle.....	Maximum...	63	62	65	64	63	70	66	64	73	83	80	67	59	56	61	68	70	74	70	74	78	80	76	65	66	74	83	87	82	81	79	71.1	
	Minimum...	44	32	33	38	34	33	44	49	39	49	48	49	48	44	35	33	36	47	57	57	60	50	48	54	50	44	49	51	54	46	50	45.3	
Clearfield.....	Maximum...	56	59	65	65	68	76	74	69	71	77	73	68	60	56	66	73	77	74	78	81	82	84	80	82	78	87	90	88	90	88	75.0		
	Minimum...	38	27	27	30	26	28	37	41	36	46	47	38	44	40	31	28	31	35	37	50	45	41	39	41	53	44	46	47	39	39	52	38.8	
Emporium.....	Maximum...	52	54	54	57	62	70	71	65	67	73	65	65	59	58	58	68	72	76	71	78	74	75	78	64	73	79	83	81	76	83	83	69.2	
	Minimum...	36	22	23	37	22	25	31	39	31	41	46	32	43	38	28	23	29	47	50	51	52	39	38	56	55	45	43	45	36	33	49	38.2	
Everett.....	Maximum...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gettysburg.....	Maximum...	64	67	67	64	65	72	65	69	75	85	85	71	59	58	63	69	72	76	75	74	80	83	72	68	70	76	84	89	83	85	82	73.1	
	Minimum...	44	33	32	37	35	33	42	48	39	50	47	48	47	45	35	35	36	44	54	55	60	50	49	55	49	47	49	50	57	47	46	45.1	
Gordon.....	Maximum...	59	55	55	55	59	68	65	60	68	78	72	64	64	54	64	64	64	71	72	80	75	73	63	69	75	84	86	80	75	75	67.7		
	Minimum...	35	26	27	30	25	29	37	47	35	37	44	44	47	42	32	27	32	44	52	54	58	46	43	51	46	40	42	47	47	39	42	40.2	
Harrisburg.....	Maximum...	59	58	61	62	61	66	64	60	70	79	72	65	57	54	60	66	68	72	68	72	78	79	66	58	69	74	81	85	78	80	78	68.4	
	Minimum...	45	39	40	45	40	42	49	48	42	54	51	50	49	44	42	39	43	50	58	58	62	60	55	54	52	52	54	55	61	53	54	49.7	
Honesdale.....	Maximum...	44	43	42	50	54	55	55	54	57	56	48	55	54	46	44	56	58	60	65	70	69	67	62	55	54	70	69	67	65	67	56.9		
	Minimum...	36	33	31	40	27	43	35	45	33	43	41	34	44	41	30	29	43	48	45	52	56	49	51	50	50	43	43	52	45	40	42	41.7	
Lancaster.....	Maximum...	67	65	61	64	65	68	63	63	69	82	81	71	68	59	63	68	68	75	73	75	77	80	78	66	70	74	81	85	86	84	79	71.9	
	Minimum...	43	30	32	38	32	33	44	49	37	47	45	50	48	45	34	32	36	42	54	51	59	49	49	52	52	46	45	49	50	45	44	43.9	
Lebanon, Pa.....	Maximum...	61	58	63	63	63	69	67	61	71	82	77	67	65	57	62	68	71	75	73	76	81	78	66	69	75	82	87	84	82	79	71.4		
	Minimum...	42	31	32	41	35	34	42	47	36	45	47	49	47	44	39	32	37	45	55	53	59	55	53	51	51	47	49	52	57	46	47	45.2	
Lock Haven.....	Maximum...	60	60	59	63	66	70	68	65	67	65	65	64	54	55	57	67	68	74	73	70	68	76	68	67	72	78	88	89	82	84	76	69.3	
	Minimum...	41	30	32	36	30	32	42	50	37	48	48	40	46	44	35	32	36	47	46	54	60	47	45	57	52	47	48	51	45	42	52	43.6	
Mauch Chunk.....	Maximum...	60	55	60	61	66	72	67	60	71	80	71	71	63	56	60	71	74	76	76	75	80	79	70	62	73	79	84	86	80	81	80	70.9	
	Minimum...	41	32	37	36	30	32	40	47	38	43	47	45	48	44	39	35	36	42	51	57	58	49	53	51	53	49	47	49	53	45	45	44.3	
Mifflintown.....	Maximum...	54	54	60	59	59	70	66	65	70	78	71	63	61	55	51	66	65	73	70	74	84	81	71	63	70	76	85	84	82	81	76	68.9	
	Minimum...	42	28	37	32	25	29	38	50	34	44	46	44	48	44	38	30	34	42	56	53	58	49	42	54	49	41	44	46	48	35	56	42.1	
Milford.....	Maximum...	58	58	57	57	65	71	68	68	68	72	66	66	66	65	64	62	71	72	73	76	74	76	74	70	69	71	76	82	86	81	83	77	70.3
	Minimum...	31	21	21	34	25	27	33	42	33	36	39	34	42	39	34	28	31	35	42	51	52	43	43	46	45	42	45	42	40	41	37.6		
Moutrose.....	Maximum...	53	44	50	55	58	65	65	62	61	64	49	58	55	51	55	58	67	70	72	70	70	71	66	62	68	75	82	79	78	74	74	63.9	
	Minimum...	35	33	28	34	30	52	43	42	34	38	41	33	40	36	33	30	38	44	52	54	55	46	47	50	49	50	50	54	46	42	49	42.2	
Muncy Valley.....	Maximum...	61	56	59	61	66	70	72	70	69	77	66	69	65	59	60	70	71	74	71	71	75	75	70	64	71	80	85	87	76	82	79	70.4	
	Minimum...	37	26	28	33	28	57	61	41	32	48	42	34	44	39	29	27	33	41	52	56	56	41	54	48	41	45	47	44	40	46	41.6		
Narberth.....	Maximum...	61	57	61	62	61	68	65	58	68	80	79	68	57	55	61	66	71	73	74	75	78	67	60	69	73	78	85	81	80	77	69.1		
	Minimum...	45	34	37	43	36	34	46	49	44	53	50	49	46	46	40	38	47	43	51	54	59	56	53	49	52	56	49	51	57	52	48	47.3	
Philadelphia.....	Maximum...	62	58	62	62	60	66	65	59	70	81	80	6																					



Daily precipitation for May, 1920. —Continued from page 37.

Stations.	Watershed.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Davis Isl. Dam|||	Ohio.....	.18										.28	.30							T.	.13	T.	.41	T.		.05							1.35
Derry.....	Conemaugh.....	.07									.03	.36	.23	.07							.46	.39	.20			.18							2.09
Ebensburg.....	Conemaugh.....	.40										.50	.35	.20							.06	.07	.82			.10							2.50
Edinboro.....	Allegheny.....									T.	.35									T.		.43				.20							0.96
Elk Lick.....	Youghiogheny.....	.42										.27	1.25	.18							.16	.31	.02			.14							2.75
Falls Creek.....	Allegheny.....										.44	.33		.03						.07	.05	.12	.98			.25							2.27
Franklin|||	Allegheny.....	.57								T.	.02	.43									.22	.07	.40			.24							1.95
Freeport.||||	Allegheny.....	.37								T.	T.	.09	.60	.04							.24	T.	.78			.16							2.28
Greensboro|||	Monongahela.....	.34											1.64								.32	.02											2.32
Greensburg.....	Youghiogheny.....	.06							T.		.03	.37	.29								.44	.39	.24			.04					T.		1.86
Greenville.....	Beaver.....																																
Grove City.....	Youghiogheny.....	.03								T.	.33	.01	T.								.15	.01	.36			.26							1.15
Herr's Isl. Dam|||	Ohio.....	.38										.34	.05	T.						T.	.10	.03	.24			.05							1.39
Indiana.....	Conemaugh.....										.20	.05	.13								.15				.65								1.18
Irwin.....	Youghiogheny.....										.04	.29	.31								.20	.01	.29			T.							1.14
Johnstown.....	Conemaugh.....	.10								T.	.06	.39	.49	.22							.15		.41			.12					T.		1.94
Ketner.....	Allegheny.....	.11									.39			.14							.05		.06	.17		.30							1.22
Linesville|||	Beaver.....	.33								.01	.11	.23			.01						.22	.46	.06			.21							1.64
Lock No. 4|||	Monongahela.....	.24										.11	.75	T.							.10	.65	.14			.05	.02						2.06
Lyeippus.....	Conemaugh.....	.42									T.	.42	.32	.02							.30	.07	.42			.05							2.02
Mosgrove|||	Allegheny.....	.35										.27	.28	.05							T.	.35	1.12			.22							2.64
New Castle.....	Beaver.....										.36	.12	.01	.01						.12	.01	1.63	.22										2.48
North Shenango.....	Beaver.....										.25										.21	.39	.11			.22							1.18
Parkers Landing|||	Allegheny.....	.44										.30	.12	.02							.30	.54	.55			.22							2.49
Penndine.....	Beaver.....	.25									.11	.25									.22	.23	.03			.19							1.28
Pittsburgh***	Ohio.....									T.	.29	.28	.01								T.	.20	.01	.20		T.	.04						1.03
Ridgway.....	do.....	.15									.37			.06	.25						.06		.05	.26			.39					.01	1.60
Saegertown.....	do.....										.48										.02	.20	.17	.05		.02	.18						1.12
Saltsburg|||	Conemaugh.....	.43										.20	.22	.09							.22	.03	.20	T.		.03							1.42
Shanksville.....	Conemaugh.....																																
Sharon|||	Beaver.....											.32									.17	T.	.73			.29							1.51
Somerset.....	Youghiogheny.....	.10									T.	.52	1.80								.42	.12	.22			.14	T.						3.32
Springdale.....	Monongahela.....	.40										.34	.28	T.							.26	.07	.37			.04							1.66
Summit.....	Beaver.....	.26									.10	.33									.27	.26	.04			.15							1.41
Turnerville.....	do.....											.26									.20	.15	.14			.32							1.07
Uniontown.....	Monongahela.....	.55									T.	.60	.96								.16	.51	.18			.04					.65		3.65
Vandergrift.....	Conemaugh.....	.33									.25		.25	.07							.24	.17	.20			.06							1.57
Warren.....	Allegheny.....	.03									.50			.05							.04	.24	.40			.82					.10		2.18
Westford.....	Beaver.....										T.	.30									.25	.15	T.			.32							1.02
West Newton|||	Youghiogheny.....	.40										.25	.52	.02							.19	.25	.55			.05	.02						2.25
Lake Drainage.																																	
Erie***	Lake Erie.....								T.		.01	.44			T.					.03	.15	.26			.15	T.							1.04
West Bingham.....	Genesee.....										.26	.67			T.							.25	.46			.10	.04				T.		1.78

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T. (trace) when precipitation is less than .01 inch. §Incomplete or missing.

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

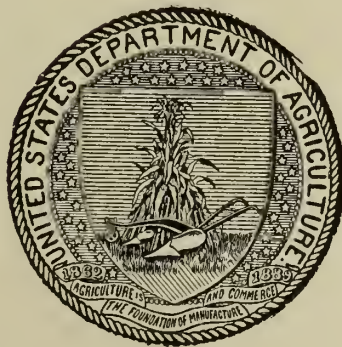
PENNSYLVANIA SECTION

JUNE, 1920.

BY

GEORGE S. BLISS

METEOROLOGIST



PHILADELPHIA, PA.
WEATHER BUREAU OFFICE
JULY 21, 1920.

Departure of the Mean Temperature from the Normal, June, 1920.



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

VOL. XXV. PHILADELPHIA, PA., JUNE, 1920. No. 6.

GENERAL SUMMARY.

The month as a whole was a pleasant and favorable one, with seasonable temperatures, and with a rainfall slightly above the June average. Conditions generally favored outdoor work, and crops made a good growth. Severe local storms occurred on the 13th and 17th, being most numerous and destructive in the central and southwestern counties. Places reporting more or less damage by storms on those dates were Williamsport, Sunbury, Mifflintown, Greensburg, Butler, Fayette City, New Castle, and rural districts in the southern portion of Lancaster county. Most of the damage was by wind and consisted of unroofing houses, tearing up large trees, and blowing fruit from orchard trees. In some instances the storms displayed some of the characteristics of tornadoes, but it is not certain that any were really such, as no funnels were observed. Many people were injured by flying debris, but the only death reported was a man at Butler who was hit by a tree that had been torn up by the wind. Hailstorms did some damage to crops, but not more than is usual for the month of June. Temperatures and rainfall favored crop growth and the results were generally satisfactory. Wheat filled well and promised to be of good to excellent quality, with a yield slightly below the average. Rye seemed to be about an average crop, and both wheat and rye were ripening at the close of the month. Corn was uneven in size, but was in a healthy condition and generally doing well. Apples and peaches were falling from the trees in many sections, but the general outlook was much better than last year, and not far below that of the ten year average. Potatoes were exceptionally good in most sections, although the acreage was somewhat less than usual. The ravages of the beetle were confined to four or five counties, and no blight was reported during the month. The berry crop was good, and while all kinds were plentiful on the market the prices remained very high. Considerable haying was done during the last week, and as weather conditions were favorable there was little loss. The first cutting was short in some places, but was generally about an average one.

TEMPERATURE.

The mean temperature, as reported by 75 stations, was 67.0°, or 0.4° below the normal. The highest temperatures were recorded in the southeastern portion of the State on the 29th, and in other sections were quite generally on the 11th. The lowest temperatures were mostly recorded on the 7th. There were no unusual extremes. The highest was 99° at Ephrata on the 27th and the lowest was 32° at West Bingham on the 4th.

PRECIPITATION.

The average rainfall, as recorded at 125 stations, was 4.97 inches, or 0.83 inch more than the June normal. It was fairly well distributed through the month, with the heaviest rains on the 5th, 16th, and 17th. Dates with little or no rain in the State were the 1st, 10th, 26th, and 27th. There was no period of drought, and the only reports of insufficient rainfall were from small localities where the prevailing number of showers did not seem to occur. The greatest rainfall for the month was 8.37 inches at West Newton, and the least was 2.25 inches at York. West Newton received 4.12 inches on the 17th. York had the usual number of days with rain, but the rainfall was light.

BAROMETRIC PRESSURE AND WINDS.

Stations.	In inches, reduced to sea level.					Total movement, in miles.	Velocity, in miles per hour.			
	Average.	Highest.	Date.	Lowest.	Date.		Average.	Highest.	Direction.	Date.
Erie.....	29.98	30.36	26	29.54	17	8,047	11.2	41	w.	21
Harrisburg.....	29.98	30.36	27	29.44	17	3,700	5.1	42	w.	16
Philadelphia.....	29.98	30.32	27	29.47	17	5,856	8.1	32	n.	80
Pittsburgh.....	30.01	30.38	27	29.44	17	7,234	10.0	50	n.	13
Reading.....	29.97	30.35	27	29.44	17	3,587	5.0	28	nw.	16
Scranton.....	29.98	30.37	27	29.51	17	4,229	5.9	31	ne.	29

* For any five-minute period.

SUNSHINE AND HUMIDITY.

Stations.	Sunshine.					Humidity.		Fog.	
	Total hours of Sunshine	Number of hours possible.	Percentage of possible.	Number of days with.		Average per cent.		Number of days with.	
				80 per cent or more.	20 per cent or less.	Average per cent.		Number of days with.	
						8 a. m.	8 p. m.	Light fog.	Dense fog.
Erie.....	318.9	455.1	70	14	2	72	69	0	0
Harrisburg.....	310.8	448.9	69	12	2	72	62	0	0
Philadelphia.....	279.4	448.9	62	7	3	70	66	0	0
Pittsburgh.....	267.1	452.0	59	11	3	76	65	8	1
Reading.....	295.0	449.0	66	12	2	68	65	4	0
Scranton.....	.....	.....	.....	0	15	74	63	15	0

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	68.4	100	30	3.04	6.90	1.08			
1889.....	66.7	95	33	5.43	10.04	2.71			
1890.....	70.1	97	33	3.42	5.74	1.30			
1891.....	68.2	100	30	4.50	9.30	1.22	12	11	7
1892.....	71.8	99	40	5.64	10.55	1.83	14	8	8
1893.....	69.8	100	38	3.12	6.50	1.20	10	11	10
1894.....	69.6	102	30	2.57	5.31	0.61	13	12	9
1895.....	71.4	104	32	3.50	9.21	0.69	13	10	5
1896.....	67.4	98	32	4.64	9.11	1.89	10	11	7
1897.....	64.8	96	28	3.38	6.42	1.11	11	11	9
1898.....	69.6	100	33	2.79	6.96	0.56	14	11	8
1899.....	69.9	101	32	3.51	5.97	0.65	13	11	5
1900.....	69.9	97	35	3.60	10.29	1.35	11	12	6
1901.....	69.1	103	32	3.47	7.61	0.88	12	11	7
1902.....	66.0	97	32	5.97	8.93	8.35	11	12	7
1903.....	63.5	90	34	6.53	11.76	3.74	7	12	7
1904.....	67.9	96	32	4.06	6.67	1.62	12	10	13
1905.....	68.0	99	30	4.39	8.35	1.77	11	10	8
1906.....	69.3	97	28	5.43	10.29	1.40	11	10	9
1907.....	63.6	98	30	4.99	8.55	2.79	11	12	7
1908.....	68.8	102	28	2.36	4.61	0.58	19	9	10
1909.....	68.8	96	34	4.48	8.96	1.89	12	9	2
1910.....	65.4	95	32	4.31	8.68	1.33	12	9	9
1911.....	68.3	99	38	4.71	10.11	2.13	12	8	10
1912.....	65.6	96	29	3.36	8.58	0.79	13	10	8
1913.....	68.2	99	20	2.26	7.61	0.66	19	9	8
1914.....	68.6	101	25	3.71	7.05	1.17	16	7	4
1915.....	69.6	89	48	3.30	8.04	0.74	8	8	6
1916.....	63.7	89	28	6.14	12.45	2.83	11	14	8
1917.....	66.8	92	32	5.38	9.85	2.25	12	10	9
1918.....	66.0	98	29	3.42	2.65	0.44	15	11	7
1919.....	71.2	102	32	3.90	9.17	1.74	16	9	6
1920.....	67.0	99	32	4.97	8.37	2.25	12	11	5

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.		Highest stage.	Date.	Lowest stage.		Date.	Flood stage.
Port Jervis.....	Delaware.....	3.0	5.1	19	2.4	4	18		
Phillipsburg.....	Delaware.....	2.5	5.3	19	1.5	30	22		
Mauch Chunk.....	Lehigh.....	4.6	5.1	20	4.3	1	15		
Wilkes-Barre.....	Susquehanna.....	3.5	5.3	21	2.8	16	20		
Williamsport.....	Susquehanna.....	2.8	9.9	19	1.3	16	20		
Harrisburg.....	Susquehanna.....	4.3	6.6	20	3.8	14	17		
Fremont.....	Allegheny.....	5.4	18.6	18	3.0	3	22		
West Newton.....	Youghiogheny.....	2.9	13.8	17	0.8	3	23		
Greensburg.....	Monongahela.....	8.0	11.6	6	7.0	14	18		
Pittsburgh.....	Ohio.....	6.5	17.2	18	4.1	22	22		
Beaver Dam.....	Ohio.....	10.3	26.0	18	7.1	8	27		

Climatological data for June, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation, 0.1 in. or more.	Clear.	Pt. cloudy.		Cloudy.	Prevailing direction of wind.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	22	65.8	-0.4	88	11†	43	19	35	5.34	+1.47	1.38	0	18	17	8	5	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	19	69.6	-0.2	94	10†	51	1†	34	2.84	-1.40	1.38	0	4	4	25	1	nw.	Prof. Chas. H. Rominger.
Bustleton.....	Philadelphia.....	125	52	68.8	.....	92	29	49	8	31	5.57	.....	2.40	0	14	9	17	4	n.	Experiment Station.
Carlisle.....	Cumberland.....	467	52	69.2	-1.7	96	29	47	7	36	2.48	-1.43	0.92	0	7	20	4	6	sw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	22	68.5	+0.8	96	11	43	7	45	4.96	+1.04	1.15	0	15	14	6	10	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	21	67.6	+1.3	94	11†	39	7	51	7.16	+2.17	1.60	0	17	14	10	6	w.	S. W. Smith.
Clearfield.....	Clearfield.....	1,120	9	67.6	+1.3	96	11†	50	7†	34	4.42	+0.38	1.19	0	12	9	18	3	w.	E. W. Hess.
Coatesville.....	Chester.....	380	31	70.6	+0.7	93	11†	44	7	36	5.95	.....	1.88	0	16	14	8	3	n.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	3	67.5	.....	89	11	38	7	40	4.21	-0.28	1.73	0	13	13	10	7	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	31	63.7	-2.5	99	29	49	7	42	4.61	+0.37	1.12	0	9	7	18	5	sw.	T. B. Lloyd.
Ephrata.....	Lancaster.....	366	19	71.9	+3.9	99	29	49	7	42	4.61	+0.37	1.12	0	9	7	18	5	sw.	Jacob Eichelberger.
Everett.....	Bedford.....	1,080	21	68.0	.....	94	29	44	6	30	5.70	.....	1.15	0	15	8	17	5	sw.	T. C. Matten.
Freeland.....	Luzerne.....	190	12	68.8	+1.1	93	11†	46	8	38	3.47	+0.31	0.78	0	9	16	12	2	sw.	Theo. Reichman.
George School.....	Bucks.....	600	43	70.1	+0.5	98	11	46	4	39	3.11	-0.85	0.71	0	12	9	16	5	sw.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	840	15	66.1	+0.9	89	11†	41	10	39	3.02	-1.31	0.98	0	10	13	11	6	w.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	380	25	67.2	-2.3	93	11	48	19	35	2.86	-1.34	1.65	0	10	21	6	3	sw.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	600	15	70.0	-0.6	96	11	46	7	33	2.99	-0.73	0.85	0	9	16	11	3	w.	State Sanatorium.
Hanover.....	York.....	361	31	69.8	-0.2	93	29	50	5	27	3.68	-0.23	1.56	0	12	4	15	11	w.	Miss Olive M. Ryder.
Harrisburg.....	Dauphin.....	1,150	31	68.0	-0.2	94	11†	43	8†	35	5.35	.....	1.95	0	5	.....	.....	.....	.....	U. S. Weather Bureau.
Honesdale.....	Wayne.....	650	31	68.0	-0.2	94	11	43	7	38	5.42	+0.94	1.15	0	17	11	11	2	sw.	George Stiles.
Huntingdon.....	Huntingdon.....	126	27	68.0	-0.9	90	11†	43	7†	32	5.05	+0.73	1.75	0	10	7	21	2	sw.	Prof. W. J. Swigart.
Kennett Square.....	Chester.....	255	16	69.2	-0.9	96	29	45	7	39	4.72	+0.75	0.82	0	9	14	12	4	w.	W. P. Mercer.
Lancaster.....	Lancaster.....	1,000	21	65.7	+0.5	93	29	40	4†	43	2.53	-1.45	0.70	0	10	11	10	9	.....	Supt. of Water Works.
Lawrenceville.....	Tioga.....	469	30	69.8	+0.5	96	11	46	7	38	6.21	+2.28	1.51	0	14	13	12	5	w.	C. P. Darling.
Lebanon.....	Lebanon.....	450	44	68.2	+1.0	96	29	45	7	39	3.83	-0.33	1.35	0	13	14	7	9	w.	S. B. Benzing.
Lewisburg.....	Union.....	450	44	68.2	+1.0	96	29	45	7	39	3.83	-0.33	1.35	0	13	14	7	9	w.	Prof. W. G. Owens.
Look Haven.....	Clinton.....	560	31	66.7	-2.7	96	11	43	7	40	3.76	-0.62	1.27	0	11	9	15	6	w.	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	4	67.0	.....	94	11†	41	19	43	4.31	.....	2.34	0	14	14	10	6	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	29	67.3	-0.5	95	29	43	8	41	3.59	-0.61	0.92	0	11	11	12	7	w.	F. C. Wintermute.
Media.....	Delaware.....	103	4	67.0	.....	91	29	41	8	41	3.59	-0.61	0.92	0	7	13	8	9	sw.	North Springfield Water Co.
Mifflintown.....	Juniata.....	445	15	67.0	-0.8	90	11	46	26	42	6.33	.....	1.35	0	17	13	6	11	w.	Wellington Smith.
Milford.....	Pike.....	500	16	63.4	-1.0	90	11	38	8	40	3.90	-0.50	0.93	0	8	13	12	5	w.	J. H. Van Etten.
Monroe.....	Susquehanna.....	1,658	16	66.9	+4.2	89	29	49	7	25	3.66	+1.81	1.85	0	10	18	5	9	nw.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	17	59.9	-1.7	78	28†	44	7	26	3.02	-1.84	1.20	0	12	12	9	9	.....	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	7	64.8	.....	92	11	41	7	38	4.86	.....	1.75	0	14	10	12	8	.....	S. P. Worthington.
Narberth.....	Montgomery.....	300	.....	69.5	.....	93	29	50	7	32	5.47	.....	2.41	0	13	9	13	8	sw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	3	68.8	.....	94	29	48	8	35	5.46	.....	1.46	0	11	16	7	7	sw.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	2	67.6	.....	94	29	45	8	36	3.43	.....	1.05	0	11	16	11	3	ne.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	47	71.2	-0.2	94	29	51	5†	28	7.38	.....	1.98	0	12	.....	.....	.....	.....	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	3	71.2	.....	96	29	42	8	42	3.06	.....	1.15	0	7	11	17	2	sw.	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	8	71.3	.....	95	29	43	8	39	3.06	-0.63	1.03	0	13	11	17	2	sw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	32	67.8	-0.4	95	11	51	5	29	3.35	-0.12	1.35	0	12	11	2	17	sw.	John E. Benner.
Reading.....	Berks.....	325	47	70.0	-0.3	94	29	50	7	31	4.66	.....	1.10	0	13	8	16	6	w.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	.....	70.6	.....	91	29	49	10	34	5.00	+1.47	2.03	0	12	3	12	15	sw.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	23	66.9	+0.2	95	11†	41	8	38	5.28	+1.03	1.95	0	10	.....	.....	.....	.....	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	30	67.9	-1.1	95	11†	41	8	38	5.28	+1.03	1.95	0	10	.....	.....	.....	.....	J. M. Boyer.
Shawmont.....	Philadelphia.....	51	23	71.4	.....	94	29	52	8	31	5.31	+1.89	1.95	0	10	.....	.....	.....	.....	W. S. Guiles.
State College.....	Center.....	1,217	31	64.2	-2.3	85	1	44	19	32	5.47	+1.09	1.02	0	15	11	13	6	nw.	Prof. Wm. Frear.
Towanda.....	Bradford.....	754	24	65.0	-0.3	92	29	43	8†	39	3.22	-0.40	1.02	0	13	10	12	8	nw.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	39	61.8	-2.7	89	11†	39	4†	42	3.33	-0.72	0.80	0	13	18	7	5	w.	George W. Hill.
West Chester.....	Chester.....	455	64	69.7	+0.3	93	11†	50	7	32	5.85	+1.70	1.74	0	15	5	15	6	w.	J. C. Green, D. D. S.
Williamsport.....	Lycoming.....	521	29	68.6	+0.1	96	11	47	7†	36	5.31	+1.47	1.35	0	14	14	5	11	se.	Jacob April.
York.....	York.....	400	19	68.8	-1.1	95	11	43	7	35	2.25	-1.28	0.67	0	11	11	14	5	w.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	5	69.1	.....	92	11	46	7	35	6.65	+2.07	3.38	0	12	11	4	15	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	2	64.1	.....	89	11†	38	7	43	4.98	.....	1.43	0	14	11	11	8	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	.....	64.2	.....	89	11†	38	7	47	6.51	.....	2.86	0	16	12	9	9	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	8	62.8	.....	89	11†	35	7	42	5.97	+1.74	1.50	0	10	17	9	4	.....	John Fawcett.
Clarion.....	Clarion.....	1,500	25	68.1	-0.1	91	10†	40	7	38	7.36	+8.29	2.64	0	12	15	8	7	w.	N. A. Goble.
Claysville.....	Washington.....	1,150	15	68.1	-2.0	90	11	42	26	43	7.33	+2.60	1.54	0	16	15	8	7	w.	E. T. Buchanan.
Derry.....	Westmoreland.....	1,172	22	66.6	-2.0	85	1	36	19	40	7.23	.....	2.10	0	16	15	7	8	sw.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	.....	62.8	.....	86	1	41	7	41	6.94	.....	1.55	0	16	13	11	6	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	2	63.8	.....	90	10	42	7	39	6.51									

Daily precipitation for June, 1920.

Stations.	Watershed.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh				.16	.65	T.							T.	.62		.10		1.48	.52			.04	.04	T.								3.61	
Altoona	Juniata			.01	.13	.67	.11		.13	.01				.18	.74	.97	1.38	.03			.08	.24	.14	.13	.03					.05	.31		5.34	
Ansonia|||	Pine Creek			.21		.80	.08			.12				.05	.25	.35	.26	.41	T.			.11			.06						.32		3.05	
Arendtsville	Potomac				1.40	.70				.03				.13		.16	.10	.15				.25	.20								.06		3.18	
Austin	W. Br. Susq.																																	
Bellefonte	do.		.17			1.90				.21				.11	.07	.83	2.52				.21		.08	.22					.04		.14		6.50	
Bethlehem	Lehigh					.93															.39												2.84	
Boserville	Lower Susq.			T.	.90					.40						T.	.50	.92			.63		.25	.45	.05								4.10	
Bustleton	Lower Del.				2.40																												5.57	
Carlisle	Lower Susq.		.05	T.	.92				.01			.06	.18	.21		.18	1.06	.07	.12		.81	.04	.10							.29	.04		2.48	
Catawissa	N. Br. Susq.	1.15		.30	.83	T.								.05	.15		.21	.73	.26		.13	.02	.12	.01	.32					.50	.18		4.96	
Center Hall	Susquehanna																																	
Clearfield	W. Br. Susq.	.08	.08	.02	.30	.20			.80	.30			T.	.20		1.20	1.60	1.50			.25	.08	.15	.03	.02						.35		7.16	
Coatesville	Lower Del.			.03	1.19	.01			.02			.58		.24		.01	.69	.75	.16														4.42	
Colebrook	Lower Susq.			.02	.62	.02			.09	T.			1.88	.02		.02	1.27	1.06	.33		.03	.31	.07	.06	T.	.01							5.95	
Cresson	Juniata		.16	.80	.14	.12			.20		.15	.05	.70			.84	1.02	1.10			.15	.10	.35	.11									6.39	
Doylestown	Lower Del.			.07		1.44	.07		.01					.10			1.2	1.05	.42	.02													3.75	
Driftwood	W. Br. Susq.		T.			.30			.10					T.	.10		.90	.70			.10	T.	T.	T.									2.40	
Emporium	W. Br. Susq.				.18	.38	.12		.34					T.	.14		.11	.75	.98	T.		.10	.25	T.	.14						.20		4.21	
Ephrata	Lower Susq.	.12				.75						.02	.56			.94	1.12				.20	.30									.60		4.61	
Everett	Juniata																																	
Freeland|||	Lehigh		.20	T.	1.15	.12	.01			T.				.60	.96		.10	.32	1.14	.68		.20	.04	.10	.02								5.70	
George School	Lower Del.					.30								.57			.78	.43	.08		.67		.02								.44	.18	3.47	
Gettysburg	Potomac		T.	.08	.56					T.			.03	T.	.44		.12	.10	.52			.12	.37	.02	.71	.04							3.11	
Girardville	Schuylkill		.30		.21	.96	.03						.01	.48		.15	.04	.52	.16		.05	.06	.03		.08						.32	.29	3.69	
Gordon	Lower Susq.		.50			.98								.02	.24			.19	.33	.13													3.11	
Gouldsboro|||	Lehigh			.12		1.92	.12				.06	.02		.32		.06	.20	.38	.57	.26		.17	.28										4.02	
Grater's Ford	Schuylkill				1.03									.06	.24			.14	.40	.31													3.68	
Hamburg	Schuylkill		.15		.08	.40							.05				.15	1.65			.05	.15	.10										2.86	
Hanover	Lower Susq.				.05	.85								.33	T.		.08	.23	.43			.47	.52	.31	.05								2.99	
Harrisburg**	do.			T.	.08	.56				T.				.33	T.		.02	.53	1.56			.14	.06	.02	T.	.25							3.68	
Holtwood|||	Lower Susq.				.97	.27				T.			.10	.33	T.		.11	.09	.18			.14	.06	.02	T.	.25							3.26	
Honesdale	Lackawaxen				1.40									.70	.24	T.		.11	.09	.18			.25										5.35	
Huntingdon	Juniata	T.	.11	.05	1.15	.02			T.	.05			T.	.50	.05		1.05	.50	.75	.05		.03	.35	.06	.40	.24							5.42	
Jersey Shore	W. Br. Susq.	.30	.01	.10	1.20	.06				.07				.18			.48	1.00	.12			.13	.06										3.93	
Karlsruhe	do.				1.35				.10					*		.15	.85	2.10				.25											5.32	
Kennett Square	Delaware				* 1.75				*	.04			*	.68	*	.09	*	.74	1.00			*	.69			.06								5.05
Lancaster	Lower Susq.				.75									.60			.66	.82	.36			.52	.17	.80									4.72	
Lansford|||	Lehigh		.19		.73		.07						.03	.28			.56	.59		.05		.21	.06	.20									3.01	
Lawrenceville	N. Br. Susq.		.05		.70	.10							.10	.53			.10	.50	.10														2.53	
Lebanon	Lower Susq.				.62				.05			.02	.31	.30	.23	T.	.59	1.51	.82	.81	T.	.24	.50	.01										6.21
Lewisburg	W. Br. Susq.	.05	T.	.02	1.34	.02							.02	.10			.21	1.35	.09				.24			.06								3.83
Lloyd	Pine Creek			.05	.81	.09				.21				.70			.52		1.21			.05	.06	.02										3.72
Lock Haven	W. Br. Susq.	.14	T.	1.26	T.	.09		.17					.06				.36	1.27				.12		.13	T.	.04								3.76
Lykens	Susquehanna		.09	T.	.99	.02					.01	.13	.05	.35			.13	2.34	.25			.14	.02	.21									4.81	
Mauch Chunk	Lehigh	T.	.05		.92	.03							.81				.29	.81	.05	.07		.18	.29										3.59	
Media	Lower Del.				* 1.86								.34				1.25				.35		.08	.60									6.33	
Mifflintown	Juniata	.01	.05	.05	.93				.08			.04	.13			.07	.91	.66	.21			.02	.23	.42	.04								3.90	
Millford	Upper Del.		.17		1.60								.60				T.	1.85	.05			.30			.33									5.50
Montrose	N. Br. Susq.		.35		.85								.55				.90	.07	.05			.05	.14										3.66	
Mount Pocono	Upper Del.	.40	.80					.10		T.				.10	.06		.10	.06	1.20		.06	.01	.03										3.02	
Muncy Valley	W. Br. Susq.	.15		.09	1.75	.02							.51				.46	1.05	.13	.15		.04	.16	.26	.04								4.86	
Narberth	Lower Del.		T.	2.41	.01			.02	.01				.12	.21	T.		.63	1.08	.08	.06	T.	.65	T.	.17	.02									5.47
Neshaminy|||	Lower Del.				1.10	1.46								.12																				

Daily temperatures for June, 1900.																																	
Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
<i>Atlantic Drainage.</i>																																	
Altoona.....	Maximum.....	86	85	73	70	65	64	75	74	74	86	88	85	83	76	83	75	69	68	65	70	70	71	75	76	81	81	82	86	88	78	76.5	
	Minimum.....	51	58	63	52	49	50	45	48	48	52	67	66	68	64	62	63	61	54	43	49	50	55	52	53	49	49	53	56	57	66	55.1	
Bethlehem.....	Maximum.....	85	88	87	73	67	65	80	79	83	94	88	85	85	89	85	84	68	71	72	73	75	73	81	83	86	81	87	94	85	80	80.9	
	Minimum.....	51	54	61	55	51	54	52	56	60	64	69	64	62	61	72	68	54	56	58	54	58	60	58	54	58	59	60	58	59	50	58.2	
Bustleton.....	Maximum.....	81	85	86	73	59	67	75	80	79	81	91	83	85	85	85	71	71	73	77	46	77	81	80	83	89	59	87	86	92	85	81.3	
	Minimum.....	54	55	66	58	51	51	51	49	52	51	61	66	60	63	59	68	59	54	53	55	54	60	57	55	59	59	59	58	65	67	57.1	
Carlisle.....	Maximum.....	87	90	81	67	60	68	79	80	76	85	95	87	91	86	84	91	85	76	71	77	77	78	83	85	84	87	89	90	92	87	83.1	
	Minimum.....	53	57	63	56	50	50	47	52	54	50	62	67	63	61	60	65	67	59	51	57	53	57	58	55	54	49	49	50	56	67	52.2	
Clearfield.....	Maximum.....	94	90	90	73	59	70	81	90	92	93	93	91	90	93	87	83	77	74	78	71	73	72	74	73	78	87	89	90	92	87	76.9	
	Minimum.....	50	52	48	46	49	51	39	48	45	42	58	60	67	61	59	64	61	56	43	45	51	51	51	49	46	45	46	40	83	85	86	50
Emporium.....	Maximum.....	88	85	84	65	57	63	78	73	75	86	89	85	84	83	76	81	69	69	70	69	69	70	72	75	76	80	83	85	86	82	76.9	
	Minimum.....	52	49	52	39	50	46	38	40	49	46	55	62	62	58	55	63	58	51	40	40	50	52	52	49	45	42	47	56	56	57	50	
Everett.....	Maximum.....	88	92	82	66	60	70	82	80	80	86	98	89	94	90	87	92	88	79	75	72	81	81	80	81	81	87	90	88	97	89	83.5	
	Minimum.....	52	53	64	46	50	51	51	52	52	48	63	64	64	61	62	67	64	60	49	57	54	56	59	54	57	51	55	55	60	70	56.5	
Gettysburg.....	Maximum.....	84	86	72	72	58	58	71	72	73	80	89	86	84	86	85	84	77	65	71	68	72	74	72	74	77	81	84	83	89	85	77.1	
	Minimum.....	50	56	58	54	50	53	47	42	52	41	54	60	56	60	57	61	60	54	43	48	50	51	49	42	49							

* , ° , etc., indicate, respectively, 1, 2, 3, etc., days missing from record.
 §§ Instruments are read in the morning, the maximum temperature then read is charged to the preceding day on which it almost always occurs.



Scale of Shades.

- 0 to 1 inch.
- 1 to 2 inches.
- 2 to 4 inches.
- 4 to 6 inches.
- Over 6 inches.

H.B.

Daily precipitation for June, 1920.—Continued from page 45.

		Day of month.																															Total.
Stations.	Watershed.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Derry.....	Conemaugh.....			.25	.29	.63	.03		.25				.53	.30		.12	.22	1.54			.12	.03	.25	.10	.17							1.50	7.33
Ebensburg.....	Conemaugh.....		.14	.07	.80	.09			.06				.10	.55		.92	1.12	2.10	.24		.04	.19	.04	.27							.50	7.23	
Edinboro.....	Allegheny.....	.30		.13	.11	.02		.41						1.15		.05	1.54	.68			.15	.05	T.	.72							.26	5.57	
Elk Lick.....	Youghiogheny.....		T.	.51	.90	.03		T.	.02					.35	.08	.81	1.32	1.55	.04		.30	.02	.07	.09	.70	.15						T.	6.94
Falls Creek.....	Allegheny.....		.37	.02	.57			.18						.22		.21	1.85	1.26	.04		.05	.22		.02	.16						.72	5.89	
Franklin.....	Allegheny.....		.28		.08	.07		.09						.32	.27		1.20	1.50	.96			.47		.34	.50						.43	6.51	
Freeport.....	Allegheny.....		.20	.02	.67	.02		T.						.61		T.	.30	2.53	.23			.54		.27	.04	.05					T.	.15	5.63
Greensboro.....	Monongahela.....			T.	1.28	.10	T.		.10					.40		T.	1.02	2.76	.10			.36		1.00	.18	.30					.60	6.58	
Greensburg.....	Youghiogheny.....	T.	.45	.24	.82	.05		.03						.46		.29	1.04	2.23	.01		.22	.06	.04	.10	.29	.02						.18	6.95
Greenville.....	Beaver.....		T.	.20	.06	.09		.05						.44			.94	1.80				.80	.29	.16								.18	5.01
Grove City.....	Youghiogheny.....			.72	.03	.95	.04		.06	.04					.70		.80	1.10	1.98	.06		.15	.13	.27	.23	.10						.05	6.04
Herr's Isl. Dam.....	Ohio.....		.33	.12	.60	.05	.12							.22		.50	1.76	.01			.15	.10	.08	.32	.42	.02						.90	7.15
Indiana.....	Conemaugh.....		.72	.20	.80	.07		.06						.31		.65	1.22	1.58				.15	.10	.08	.32	.42	.02					.52	6.36
Irwin.....	Youghiogheny.....		.10	.10	.35	.56	.05		.01			.13		.68		.37	.88	1.06	.10				.11	.14								.34	6.24
Johnstown.....	Conemaugh.....			.14		.20	.10							.22	.20		1.13	.91	.27	.03			.19	T.	.06	.02					.26	3.78	
Ketner.....	Allegheny.....		1.01		T.	.11		.42						.04	.22	.57		1.13	.91	.27	.03		.19	T.	.06	.02						.23	5.21
Linesville.....	Beaver.....		.14	T.	1.06	.05		T.	T.					.11	1.18		.08	T.	3.95	.05		.28	.02	.38	.04							.12	6.30
Lock No. 4.....	Monongahela.....		.52	.22	.82	.08		.40						.31		.02	1.58	1.58			.13		.05	.25	.22							.1	4.49
Lyeippus.....	Conemaugh.....		.13		.53	.02		.17						.21		T.	.63	2.17	.35			.28		T.							.09	6.28	
Mosgrove.....	Allegheny.....			.23	.04		.27	.04						.86		.33	2.30	.44			.49	.01	.23	.08	.04						.26	.61	5.69
New Castle.....	Beaver.....	.57		.51		.11		.41						.72			1.35	.57	.75		.25		.41								.20	5.66	
North Shenango.....	Beaver.....		.12		.38	T.		T.	.26					.05	.68	.83	1.50	1.05	T.		.35		.24	T.							.02	4.65	
Parkers Landing.....	Allegheny.....		.82			.22		.44						.05	.20	.52		.88	.72	.54		.66	.04	.18	.14	.04					T.	.08	6.74
Pennline.....	Beaver.....	T.	.74	.22	.52	.54		.04						.85			1.78	.91														.05	5.05
Pittsburgh***.....	Ohio.....																.12	1.03			.15	.08		.06							.23	6.54	
Ridgway.....	do.....		.85	.25		.09		.53						.82		.02	1.12	1.03					.37	.06	.87	.41							
Saegertown.....	do.....	.03		.51	.03	.83	.18			.08				.16	.42	.04	.10	2.13	.09														
Saltsburg.....	Conemaugh.....			.27		.02	T.			.28					.40			.42	1.30	.50			.31	.07	.29	.22	T.					.76	4.84
Shanksville.....	Conemaugh.....			.48	.50	.55	.10		.15	.20				.48	.22		1.80					.26	.11	.09	.15	.95						.70	8.01
Sharon.....	Beaver.....		.64	.06	.81	.07		.02	.03						1.19	.07	.52	2.20	.29			.46	.05	.51	.38	.09						.12	5.58
Somerset.....	Youghiogheny.....			.42		.20		.50							.78		.75	1.50	.23				.20										5.49
Springdale.....	Monongahela.....		1.42			.20		.50								.22		1.35	.84	1.35												.44	7.52
Summit.....	Beaver.....		.60	.15		.24												2.04	1.65			.25	.02	.11	.28	.80	.22					T.	6.21
Turnerville.....	do.....		T.	1.22	.52	.06								.25	T.			.90	2.15	.01		.15	.20		.44	.04					.78	5.30	
Uniontown.....	Monongahela.....		.37	.07	.58	.02		.01	.15					.01	.33		.90	2.70				.22		.12		.14					.30	.22	5.30
Vandergrift.....	Conemaugh.....		.46		.22	.06		.10						.16	.20		1.50	.90	.70													.64	5.30
Warren.....	Allegheny.....		.42			.16		.28								.62		1.37	.70	.84			.18		.06	.03							
Westford.....	Beaver.....		.62	.02	1.20	.09			.01							.55	.07	1.19	4.12	.71			.30		.36	.10	.03						
West Newton.....	Youghiogheny.....																																
Lake Drainage.																																	
Erie***.....	Lake Erie.....		.71			.39		.27					T.	.19	.78		.01	.76	.21	.02		.13	.01								.17	.29	3.94
West Bingham.....	Genesee.....			.13		.36	.06		.18						.02			.39	.65	.08	T.	.10			.19							.38	2.54

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station: precipitation is for 24-hour period, midnight to midnight. * Precipitation included in the next following measurement.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. T, (trace) when precipitation is less than .01 inch. § Incomplete or missing.

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

OF RECORDS

AUG 30 1920

CLIMATOLOGICAL DATA

PENNSYLVANIA SECTION

JULY, 1920.

BY

GEORGE S. BLISS
METEOROLOGIST



PHILADELPHIA, PA.
WEATHER BUREAU OFFICE
AUGUST 17, 1920.

Departure of the Mean Temperature from the Normal, July, 1920.



Shaded portions show excess (+)
 Unshaded portions show deficiency (-)
 Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

VOL. XXV. PHILADELPHIA, PA., JULY, 1920. No. 7.

GENERAL SUMMARY.

The month was very favorable for farm work and crop growth, rainfall being unusually well distributed in point of time, though somewhat too light in western counties for pastures and second crops of hay. There was a general absence of prolonged wet spells of a kind to cause much interference with harvesting. The corn crop made good progress during the month, but the handicap of the unfavorable weather earlier in the season could not be overcome. Wheat and rye harvest was nearly completed at the close of the month and oats harvest was begun. Potatoes were in excellent condition, tobacco late and backward, truck crops and vegetables in very satisfactory condition with abundant yields. Pastures and meadows only were affected unfavorably during the month, and even these had sufficient moisture in many sections, especially in the east central counties.

TEMPERATURE.

The average temperature for the State, 69.5°, was the lowest for any July since 1909. There was unusual freedom from oppressive heat, and maximum temperatures never reached 90° at fully one-third of the stations in the State. The highest recorded was 96° at Gettysburg on the 23d; the lowest was 33° at West Bingham on the 27th. Light frost was observed in a few localities about the 27th, while temperatures approaching the lowest ever known in July occurred over most of the State.

PRECIPITATION.

The average rainfall for the State, as determined from records of 120 stations was 4.37 inches, which is 0.34 inch more than normal. The greatest total for the month was 10.70 inches at Milford; the least was 1.27 inches at Creekside, Indiana County.

VIOLENT LOCAL STORMS.

Destructive storms occurred with about the usual frequency over the State. Following is a brief outline of the character of those that were described in some detail by correspondents and in newspapers.

Union City, July 8.—Very severe hailstorms in vicinity.

Carlisle, July 14.—Storm of possibly tornadic character, unroofed buildings, broke down numerous trees, a silo, and ruined crops along a narrow path of nearly three miles length. No hail reported.

Mt. Pocono, July 18.—Severe electrical storm. All transformers on electric light plant destroyed.

Mt. Pocono, July 22.—Woman killed by lightning. Damage by lightning extensive in Monroe County.

Stroudsburg and Mt. Pocono, July 24.—Terrifying thunder and destructive lightning, excessive rainfall, many washouts. Large part of the county affected.

Greensburg, July 23.—Extensive damage in vicinity by hail and high winds.

Selinsgrove, July 30.—Buildings unroofed, crops beaten down flat and ruined, trees and telephone poles blown or broken down, streets obstructed. Damage attributed to high winds, no mention of hail. Many thousand dollars loss.

New Kingston, July 31.—Trees blown down, buildings unroofed, corn leveled to the ground and badly cut by hail.

G. W. M.

BAROMETRIC PRESSURE AND WINDS.										
Stations.	In inches, reduced to sea level.					Total movement, in miles.	Velocity, in miles per hour.			
	Average.	Highest.	Date.	Lowest.	Date.		Average.	*Highest.	Direction.	Date.
Erie.....	29.98	30.22	10	29.54	23	8,609	11.6	43	w.	18
Harrisburg.....	30.00	30.22	13	29.61	3	4,368	5.9	34	sw.	7
Philadelphia.....	30.00	30.23	29	29.58	3	6,398	8.6	25	s.	7
Pittsburgh.....	30.01	30.24	20	29.65	2	7,186	9.6	41	nw.	18
Reading.....	29.99	30.22	13	29.59	3	4,477	6.0	31	nw.	14
Scranton.....	29.99	30.25	13	29.57	3	4,991	6.7	33	sw.	14

* For any five-minute period.

SUNSHINE AND HUMIDITY.									
Stations.	Sunshine.					Humidity.		Fog.	
	Total hours of Sunshine	Number of hours possible.	Percentage of possible.	Number of days with.		Average per cent.		Number of days with.	
				80 per cent or more.	20 per cent or less.	8 a. m.	8 p. m.	Light fog.	Dense fog.
Erie.....	287.8	461.4	62	13	5	75	68	0	0
Harrisburg.....	369.8	455.2	81	18	0	71	61	0	0
Philadelphia.....	336.7	455.2	74	13	1	73	64	1	0
Pittsburgh.....	294.4	458.3	64	11	3	75	63	4	2
Reading.....	321.0	455.0	70	12	1	69	63	5	0
Scranton.....	.....	.....	.....	2	7	78	68	16	0

COMPARATIVE DATA FOR JULY.									
Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	69.2	97	38	3.45	7.10	1.40	.....	.....	.....
1889.....	71.6	96	39	6.80	15.02	1.04	.....	.....	.....
1890.....	70.7	101	33	3.52	6.40	0.70	13	11	7
1891.....	67.8	97	34	6.32	11.61	2.63	11	10	10
1892.....	73.1	103	38	3.93	8.59	2.15	15	11	5
1893.....	72.1	102	36	3.15	6.27	1.58	15	12	4
1894.....	73.8	103	31	2.32	5.96	0.53	15	11	5
1895.....	69.1	102	34	3.24	6.18	1.16	12	12	7
1896.....	72.8	98	40	6.89	15.59	3.04	10	11	10
1897.....	73.4	103	41	6.26	14.51	2.10	10	11	10
1898.....	74.8	107	33	3.36	6.29	1.15	12	12	7
1899.....	72.3	101	35	3.91	8.24	1.53	12	11	8
1900.....	74.0	104	35	4.86	8.26	1.81	14	12	5
1901.....	76.4	107	45	3.88	7.34	1.52	10	13	8
1902.....	71.8	99	41	6.04	12.35	2.11	10	12	9
1903.....	71.2	98	35	5.36	8.81	1.76	13	12	6
1904.....	70.6	99	34	4.68	9.19	1.92	12	11	8
1905.....	72.6	99	39	4.87	9.78	2.49	10	12	9
1906.....	71.3	95	38	4.31	8.98	1.41	12	13	6
1907.....	71.5	96	34	3.84	9.46	1.01	15	12	4
1908.....	73.9	104	39	4.81	9.57	2.15	14	12	5
1909.....	69.7	98	34	2.14	4.50	0.75	16	11	4
1910.....	72.8	99	41	2.42	5.15	0.45	16	11	4
1911.....	73.7	105	36	2.81	7.41	0.90	16	11	4
1912.....	71.3	100	36	5.29	12.65	1.04	12	11	8
1913.....	71.8	101	40	4.16	8.00	0.82	15	10	6
1914.....	71.3	101	38	4.19	10.29	1.10	12	11	8
1915.....	70.7	98	40	5.28	12.30	1.82	10	13	8
1916.....	74.3	98	41	4.45	12.41	0.39	14	10	7
1917.....	72.1	105	40	4.33	9.76	1.90	12	12	7
1918.....	70.1	99	35	3.05	9.96	0.77	16	10	5
1919.....	72.6	104	34	5.90	14.58	1.70	16	8	7
1920.....	69.5	96	33	4.37	10.70	1.27	15	10	6

RIVER CONDITIONS.									
Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.		
Port Jervis.....	Delaware.....	3.5	8.4	25	2.3	12	18		
Phillipsburg.....	Delaware.....	2.9	8.4	25	1.3	13	22		
Mauch Chunk.....	Lehigh.....	4.4	5.0	23	4.1	12	15		
Wilkes-Barre.....	Susquehanna.....	4.1	14.0	25	2.7	7	20		
Williamsport.....	Susquehanna.....	1.2	1.8	3	0.6	31	20		
Harrisburg.....	Susquehanna.....	4.0	6.2	27	3.6	21	17		
Freeport.....	Allegheny.....	.....	.....	.....	.....	.....	.....
West Newton.....	Youghiogheny.....	1.2	3.0	26	0.5	23	23		
Greensboro.....	Monongahela.....	8.2	11.2	26	7.0	1	18		
Pittsburgh.....	Ohio.....	5.7	7.2	27	4.6	16	22		
Beaver Dam.....	Ohio.....	8.6	9.0	11	7.9	25	27		

Climatological data for July, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 0.1 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	22	67.8	-3.3	86	30	44	26†	31	3.51	+0.29	1.32	0	13	17	10	4	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. Chas. H. Rominger.
Bustleton.....	Philadelphia.....	125	52	72.4	.....	89	13†	48	26	35	5.36	.....	1.95	0	13	18	9	4	s.	Experiment Station.
Carlisle.....	Cumberland.....	467	52	71.2	-3.6	93	30	46	27	36	4.11	+0.32	1.37	0	8	22	3	6	se.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	22	71.0	-1.7	92	24†	44	26†	38	4.35	+0.64	2.05	0	13	23	7	1	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. W. Smith.
Clearfield.....	Clearfield.....	1,120	9	69.8	-1.3	89	23	41	26	40	4.53	+0.99	1.70	0	14	.....	.....	.....	.....	E. W. Hess.
Coatesville.....	Chester.....	380	31	73.4	-1.3	91	23	50	26	28	4.64	-0.25	1.79	0	9	14	14	3	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	3	71.0	.....	90	22†	44	27	35	3.65	.....	1.12	0	13	20	6	5	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	31	65.5	-4.7	86	24	39	17	37	3.83	-0.61	0.99	0	11	14	9	8	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	366	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacob Eichelberger.
Everett.....	Bedford.....	1,080	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. C. Matten.
Freeland.....	Luzerne.....	190	12	69.8	.....	89	24	44	26	24	6.14	.....	1.51	0	13	8	19	.....	.....	Thco. Reichmann.
George School.....	Bucks.....	190	12	71.8	-1.8	90	13†	48	26†	33	3.66	-0.16	0.96	0	13	15	11	5	w.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	43	73.2	-0.8	96	23	45	27	38	2.92	-0.64	0.98	0	7	18	11	2	sw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	15	67.4	-2.8	87	14†	39	27	35	6.92	+1.84	1.96	0	12	19	6	6	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	25	69.5	-4.0	88	13†	48	26†	31	6.55	+1.56	1.30	0	13	24	6	1	sw.	State Sanatorium.
Hanover.....	York.....	600	15	73.6	-1.8	94	23	41	1	47	3.43	-0.87	0.82	0	9	23	6	2	sw.	Miss Olive M. Ryder.
Harrisburg.....	Dauphin.....	361	31	73.0	-1.7	90	23	53	27	27	4.02	+0.29	1.57	0	11	10	14	7	s.	U. S. Weather Bureau.
Honesdale.....	Wayne.....	1,150	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	George Stiles.
Huntingdon.....	Huntingdon.....	650	31	69.8	-2.4	91	30	43	26	40	4.04	+0.24	1.72	0	11	18	9	4	w.	Prof. W. J. Swigart.
Kennett Square.....	Chester.....	126	27	71.6	-2.3	87	23†	51	26†	26	4.39	+0.20	1.66	0	8	.....	.....	.....	.....	W. P. Mercer.
Lancaster.....	Lancaster.....	255	16	73.1	-0.3	93	14†	44	27	37	2.00	-1.84	0.84	0	6	16	11	4	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	21	68.4	-1.8	89	13	40	17	42	6.35	+2.16	3.30	0	10	16	13	2	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	30	72.3	-1.3	92	30	40	27	40	4.79	+0.60	1.51	0	12	14	15	2	w.	S. B. Benzig.
Lewisburg.....	Union.....	450	44	70.9	-0.6	92	24	42	17†	38	4.36	+0.37	1.62	0	12	20	8	3	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	31	69.5	-3.8	88	29	44	27	38	5.96	+2.06	1.24	0	15	8	19	4	w.	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	4	69.4	.....	93	31	40	27	39	4.22	.....	1.56	0	13	21	7	3	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	29	70.1	-2.2	91	13†	43	27	36	5.10	+0.07	2.05	0	12	12	15	4	w.	R. K. Wintermute.
Media.....	Delaware.....	103	4	69.8	.....	86	6†	.....	.....	.....	7.13	.....	1.68	0	9	17	3	11	s.	North Springfield Water Co.
Mifflintown.....	Juniata.....	445	15	69.8	-2.9	90	30†	44	26†	35	4.20	+0.25	1.00	0	12	21	6	4	w.	Wellington Smith.
Milford.....	Pike.....	500	16	66.2	-4.0	85	13†	41	26†	34	10.70	+6.82	3.01	0	9	.....	.....	.....	.....	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	16	67.6	-0.6	83	24	48	26	22	8.20	+4.26	1.62	0	11	16	12	3	s.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	17	61.4	-4.8	79	14	38	17†	28	10.30	+5.66	3.50	0	15	16	8	7	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	7	67.5	.....	90	24	39	27	37	6.96	.....	1.71	0	13	17	9	5	.....	S. P. Worthington.
Narberth.....	Montgomery.....	300	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.51	0	.....	.....	.....	.....	.....	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	3	72.6	.....	94	31	45	26	33	2.86	.....	0.85	0	11	19	8	4	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	2	70.4	.....	91	24	45	27	33	7.78	.....	1.81	0	13	15	11	5	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	47	75.6	-0.9	91	31	56	26	25	3.52	-0.54	0.81	0	11	7	18	6	s.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	3	75.0	.....	92	31	55	26	26	4.20	.....	1.03	0	10	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	8	75.5	.....	90	9†	51	27	26	4.21	.....	1.80	0	8	.....	.....	.....	.....	North Springfield Water Co.
Quakertown.....	Bucks.....	496	32	70.7	-1.8	89	10†	43	27	37	4.81	+0.08	1.25	0	11	17	9	5	sw.	John E. Benner.
Reading.....	Berks.....	325	47	73.5	-1.4	90	14†	52	27	26	3.67	-0.62	1.20	0	11	14	8	9	sw.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	619	.....	74.0	.....	92	31	51	26	29	3.90	.....	1.47	0	8	14	14	3	w.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	23	69.6	-2.5	89	14	47	27	30	5.42	+1.89	1.47	0	13	5	19	7	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	30	70.0*	-3.5	91	30	43	27	36*	5.89	+1.52	1.06	0	13	6	19	6	s.	J. M. Boyer.
Shawmont.....	Philadelphia.....	51	23	75.0	.....	90	15†	52	26	28	4.85	+0.59	1.45	0	10	18	9	4	se.	W. S. Guiles.
State College.....	Center.....	1,217	31	67.0	-3.6	85	30	43	27	30	2.91	-0.82	0.72	0	11	14	14	3	sw.	Prof. Wm. Frear.
Towanda.....	Bradford.....	754	24	68.1	-2.5	89	24	13	17	37	5.83	+1.96	2.08	0	13	13	13	5	c.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	39	64.6	+4.3	86	24	40	17†	35	4.85	+0.94	1.60	0	15	24	5	2	sw.	George W. Hill.
West Chester.....	Chester.....	455	64	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. C. Green, D. D. S.
Williamsport.....	Lycoming.....	521	29	71.6	-1.5	93	24	46	27	34	3.65	-0.29	0.72	0	9	17	7	7	se.	Jacob April.
York.....	York.....	400	19	71.8	-2.6	92	23†	43	26†	38	2.77	-2.26	0.71	0	9	18	7	6	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	5	71.4	.....	91	30	48	5†	33	2.46	-1.41	0.55	0	11	11	10	10	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	2	65.6	.....	85	13†	40	27	39	3.06	.....	0.75	0	12	13	10	8	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	.....	67.1	.....	87	30	39	26	35	6.36	.....	1.65	0	13	15	10	6	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	8	64.8	.....	88	30	40	5	40	3.59	-1.08	0.99	0	7	18	12	1	.....	John Fawcett.
Clarion.....	Clarion.....	1,500	25	.....	.....	.....	.....	.....	.....	.....	3.48	.....	1.11	0	10	23	0	8	w.	N. A. Goble.
Claysville.....	Washington.....	1,150	15	70.0	-2.7	91	23†	41	26†	41	3.26	-1.24	0.80	0	10	17	6	8	w.	E. T. Buchanan.
Derry.....	Westmoreland.....	1,172	22	67.8	-5.5	88	23†	40	27	40	5.39	+0.61	2.12	0	11	20	6	5	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	.....	65.8	.....	83	22†	34	27	38	3.06	.....	0.96	0	10	.....	.....	.....	.....	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	2	65.7	.....	85	1†	38	26	38	4.65	.....	0.98	0	14	18	10	3	w.	J. D. Miller.
Franklin.....	Venango.....	1,000	25	67.4	-3.1	89	30	44	27	35	4.27	-0.29	0.98	0	11	20	4</			

Day of month.

Continued on page 56.

Daily temperatures for July, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
Atlantic Drainage.																																	
Altoona.....	Maximum...	83	77	83	75	76	78	78	76	77	79	71	79	83	82	77	75	75	80	71	79	80	84	84	83	73	67	75	81	85	86	85	78.6
	Minimum.....	56	59	63	59	48	52	64	62	56	53	58	61	60	60	66	56	46	53	60	60	55	61	61	71	55	44	44	50	54	57	63	57.0
Bethlehem.....	Maximum.....	85	82	83	76	77	81	86	80	86	87	86	82	89	87	87	88	80	76	83	84	85	86	89	89	80	79	79	86	86	85	89	83.8
	Minimum.....	62	61	64	62	52	56	62	67	53	63	62	70	64	65	70	65	57	56	70	60	58	62	65	72	61	48	50	51	53	57	64	60.9
Bustleton.....	Maximum.....	86	82	86	69	70	80	86	81	86	85	82	85	87	90	79	80	79	82	86	82	86	88	91	83	77	72	77	85	89	93	90	83.0
	Minimum.....	66	52	62	54	52	64	66	61	59	59	60	61	61	62	69	58	53	60	67	57	56	63	65	71	62	47	46	52	54	57	63	52.3
Carlisle.....	Maximum.....	88	85	88	85	84	86	84	84	80	84	86	83	88	86	84	78	82	82	74	87	87	88	89	88	73	69	80	85	87	89	88	83.9
	Minimum.....	53	58	63	57	48	51	63	63	55	53	57	62	56	58	66	56	42	50	61	61	53	58	60	68	53	41	42	50	51	57	60	55.7
Clearfield.....	Maximum.....	81	81	81	69	75	81	79	75	76	76	73	78	84	80	79	71	73	79	71	78	81	81	81	86	66	65	74	79	82	84	82	77.5
	Minimum.....	51	50	61	53	44	44	67	60	54	52	53	60	55	58	61	48	39	45	60	58	51	60	59	65	49	44	41	47	51	58	68	53.5
Everett.....	Maximum.....	83	84	91	79	83	83	87	83	89	88	84	89	92	90	83	85	82	85	90	85	89	91	96	88	80	76	80	88	89	93	95	86.8
	Minimum.....	60	60	62	63	52	53	65	60	58	59	59	67	61	62	67	58	54	62	69	57	55	62	70	70	65	47	45	50	54	59	67	59.7
Gettysburg.....	Maximum.....	84	83	79	73	73	80	76	79	80	81	80	79	86	87	81	76	76	75	78	80	81	86	84	86	76	71	74	76	82	87	82	79.7
	Minimum.....	51	60	63	52	55	49	65	59	54	56	54	61	54	57	64	55	44	50	68	53	49	54	63	68	56	41	39	46	50	56	58	55.0
Gordon.....	Maximum.....	87	81	86	75	79	80	84	82	86	84	82	83	87	87	78	78	79	81	83	81	81	87	90	83	74	70	76	83	84	90	87	82.3
	Minimum.....	69	65	67	63	58	59	69	66	64	67	64	68	64	67	68	64	59	62	65	62	60	68	67	70	61	56	53	58	61	63	68	63.7
Honesdale.....	Maximum.....	88	88	88	85	86	79	85	84	88	87	88	88	90	93	84	84	81	81	89	86	85	88	93	92	81	77	81	87	86	88	90	86.1
	Minimum.....	61	60	65	54	64	55	65	63	59	60	59	72	62	63	69	58	53	57	71	58	54	61	69	77	64	46	44	49	53	57	61	60.1
Lancaster.....	Maximum.....	86	86	87	85	79	83	81	81	85	85	85	86	90	91	82	79	78	81	87	83	87	90	91	89	82	73	80	85	89	92	89	84.7
	Minimum.....	63	62	63	61	54	57	64	64	60	60	62	68	61	64	68	58	52	57	71	57	55	63	66	74	64	47	40	53	55	57	59.9	
Lebanon, Pa.....	Maximum.....	82	77	82	76	78	79	79	78	78	77	83	76	82	86	87	80	77	75	74	86	87	86	87	85	77	74	82	86	88	82	84	80.8
	Minimum.....	56	57	62	56	50	51	67	64	58	57	53	65	59	62	69	59	46	53	64	55	62	63	72	71	55	45	44	52	54	60	64	58.2
Lock Haven.....	Maximum.....	80	84	83	73	80	85	83	81	87	86	85	84	91	91	81	79	78	72	85	83	85	87	87	91	73	69	79	86	86	87	87	83.0
	Minimum.....	56	55	63	55	52	50	65	61	55	55	57	68	58	62	66	57	47	50	69	60	51	59	63	69	59	41	43	51	54	57	63	57.2
Mauch Chunk.....	Maximum.....	87	84	84	79	81	81	80	82	83	81	81	80	86	88	80	78	79	77	78	83	85	89	88	84	76	69	77	84	86	90	90	82.3
	Minimum.....	54	60	59	63	55	51	64	64	57	54	55	65	57	59	68	56	47	58	64	59	53	58	63	71	59	44	44	49	52	56	62	57.4
Mifflintown.....	Maximum.....	80	80	80	75	75	79	81	79	82	81	82	80	85	85	84	75	74	75	82	83	81	82	83	80	77	72	75	80	82	82	83	79.8
	Minimum.....	52	50	56	61	51	45	62	58	49	51	53	63	52	57	62	49	42	43	60	53	47	56	57	61	54	41	47	49	54	57	62	52.7
Milford.....	Maximum.....	79	78	76	65	71	75	73	70	78	79	78	78	81	82	76	74	72	72	75	76	78	76	76	83	66	65	74	80	78	81	75	75.5
	Minimum.....	60	60	61	57	56	58	64	61	60	61	62	62	62	65	64	52	55	56	65	58	61	62	61	65	53	48	58	62	58	63	62	59.7
Montrose.....	Maximum.....	84	80	82	72	77	81	75	77	80	84	83	80	81	84	81	76	75	76	81	82	83	84	84	90	70	64	76	82	84	87	83	79.9
	Minimum.....	52	54	63	64	47	52	67	60	53	53	50	63	54	67	66	55	42	50	66	55	51	59	60	64	49	41	39	46	49	58	59	55.1
Muncy Valley.....	Maximum.....	86	85	85	77	79	81	88	83	88	87	85	84	89	90	84	85	80	78	84	82	85	88	91	90	78	73	77	82	83	87	91	84.0
	Minimum.....	70	66	66	67	61	67	66	71	70	72	66	72	70	71	73	70	65	66	72	66	68	70	66	75	61	56	57	63	64	63	69	67.1
Narberth.....	Maximum.....	86	85	83	75	79	82	87	80	86	87	84	86	89	90	83	80	78	78	88	84	85	89	82	87	78	70	77	83	86	90	90	83.7
	Minimum.....	66	65	64	60	57	58	67	68	62	65	64	70	66	70	70	64	59	61	68	63	61	69	67	70	57	53	52	57	60	65	65	63.3
Reading.....	Maximum.....	82	80	80	70	76	82	82	77	81	83	85	82	87	89	81	75	75	76	82	81	83	80	82	88	66	64	77	82	83	85	85	80.8
	Minimum.....	62	58	62	61	56	52	67	61	57	58	61	66	60	62	67	59	50	53	67	61	56	64	64	54	47	53	55	65	65	65	65	59.2
Scranton.....	Maximum.....	84	83	84	77	80	85	84	82	84	84	82	83	88	89	80	78	79	80	83	82	86	89	85	88	80	71	79	84	87	91	88	83.0
	Minimum.....	53	59	53	60	50	52	67	61	59	55	57	67	60	61	69	57	48	52	54	57	54	66	65	69	58	44	43	51	53	60	57.1	
Seltis><																																	



Scale of Shades.

- 0 to 1 inch.
- 1 to 2 inches.
- 2 to 4 inches.
- 4 to 6 inches.
- Over 6 inches.

Daily precipitation for July, 1920. - Continued from page 53.

Stations.	Watershed.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Derry.....	Conemaugh.....	.78	.03				.07	.55		.26		.52				.33			.05	.11				.57									2.12	5.39	
Ebensburg.....	Conemaugh.....	.21	.32					.50	.17	.10		.18				.08			T.	.30					.24								.96	3.06	
Edinboro.....	Allegheny.....	.15	T.					1.00	.91	.34		.21	.01	.44	.25				2.27	.02			2.16	.04	.01								.12	7.93	
Elk Lick.....	Youghiogheny.....	.52	.75					.07		.02		.46	.02		.36	.26			.23	.22				.41	.98	.07							.28	4.65	
Falls Creek.....	Allegheny.....	.15	.04					.50		.59		.12				.04			.09	.35			.08	.74									.76	3.48	
Franklin|||	Allegheny.....		.13	.04				.52	.24	.98			.35			.25				.37				.98	.03								.38	4.27	
Freeport|||	Allegheny.....																																		
Greensboro|||	Monongahela.....	.06		.74	.18			.56	.04			T.	.88			.38				.50				T.	.90								.16	4.40	
Greensburg.....	Youghiogheny.....		.54	.02			T.	.43		.24		.92			T.	.14			.01	.09	T.			.06									1.11	3.56	
Greenville.....	Beaver.....																																		
Grove City.....	Youghiogheny.....		.05				.03	.97	.02	.25		.26	.03			.71			.11					.10								.10	.82	3.45	
Herrs Isl. Dam|||	Ohio.....	.24		.39	.04			.15	.16	.10		.09	.29			T.	.01			.63	T.			T.		T.							.80	2.90	
Indiana.....	Conemaugh.....		.39				.35		.05			.50			.10	.07				.20	.15		.03										.92	2.76	
Irwin.....	Youghiogheny.....	.03	.75	.02			T.	.33	.02	.12	T.	.75				.11			T.	.12					.07								1.24	3.56	
Johnstown.....	Conemaugh.....	.40	.21				.22	.60		.13		.21				.95				.17	.14			T.	.01							.55	.73	4.32	
Ketner.....	Allegheny.....	.14	.06					.52		.47					.17					.10			.69	.67									.23	3.04	
Linesville|||	Beaver.....		.01	T.				.58	.12	.37	.01		.16			T.	.11		.19	.13	.03			.43	.04								.30	2.48	
Lock No. 4|||	Monongahela.....	.03		.93	.22			.45	.31	.38		.20	.58			.21	T.			.20	T.				T.	.02							.63	4.16	
Lycippus.....	Conemaugh.....		.81	.50			T.	.75		.42		.66				.64			T.	.22				.98	.22								1.02	6.22	
Mosgrove|||	Allegheny.....	.82		.26				.26	.72	.31		T.	.30			.29				.42				.09	.27								.30	3.74	
New Castle.....	Beaver.....	.07	.10				.58	.11	.03	.01	.10	.07		.04	.19			.18	.02			.01		.03								.30	1.06	2.90	
North Shenango.....	Beaver.....							.44	.51	.53		.25				.36			.12	.15			.91										.23	3.50	
Parkers Landing|||	Allegheny.....			.06				.20	.18	.30		T.	.26			T.	.24			.32	T.			.12	.03								.34	2.05	
Pennline.....	Beaver.....							.35	.20	.81	.05		.09			.17			.29	.27	.03			.13	.04								.30	2.73	
Pittsburgh***	Ohio.....		.40	.12			.03	.14	.09	.01		.36				T.	.02			.42	.12			T.		T.						.77	.81	3.29	
Ridgway.....	do.....																																		
Saegertown.....	do.....							.56	.32	.27		.21			.27				.62				1.14	.07									.23	4.09	
Saltsburg|||	Conemaugh.....	.94		.33	.06			.23	.17	.10		.02	.57			.83	.18			.33	T.				.95								1.59	6.30	
Shanksville.....	Conemaugh.....																																		
Sharon|||	Beaver.....							.82	.27	T.						.70			.06			T.		T.									.13	1.98	
Somerset.....	Youghiogheny.....			.13			.11	.22				.69			.14	.24			T.	.05				.65	.62								1.25	4.10	
Springdale.....	Monongahela.....	.30		.36				.17	.15	.06		.50			.02	.16			.34		.65	.95					T.						.57	3.89	
Summit.....	Beaver.....			.08				.70	.40	.91		.07				.16			.34				.45	.28									.31	3.70	
Turnerville.....	do.....							1.20	1.31	.10						.70			.23				.70										.20	4.44	
Uniontown.....	Monongahela.....	.07	.48	.15			.04	.61				.94				.09				.49					2.38								.65	5.90	
Vandergrift.....	Conemaugh.....																																		
Warren.....	Allegheny.....			.04				.82	1.30	.44		.03			.08	.10			.36	.06			.10	.08									.10	3.51	
Westford.....	Beaver.....		.02	T.				.76	.16	.99			.12			.36			.05	.22	T.			.25	.05								.22	3.20	
West Newton|||	Youghiogheny.....																																		
Lake Drainage.																																			
Erie***	Lake Erie.....	.06					.01	.36	.64			T.	.03	.01	.07				2.03	.01		.01	.52	.06	.03							T.	T.	3.84	
West Bingham.....	Genesee.....		.10	.04				.54	.25	.05		.02	.01		.03				.86	.12			.20	.03	1.12							.03	.10	3.50	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

PENNSYLVANIA SECTION

AUGUST, 1920.

BY

GEORGE S. BLISS

METEOROLOGIST



PHILADELPHIA, PA.
WEATHER BUREAU OFFICE
SEPTEMBER 20, 1920.

Departure of the Mean Temperature from the Normal, August, 1920.



Shaded portions show excess (+).
Unshaded portions show deficiency (-).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

VOL. XXV. PHILADELPHIA, PA., AUGUST, 1920. No. 8.

GENERAL SUMMARY.

The temperatures averaged very close to the normal, with no unusual extremes. The rainfall was excessive in the southern and deficient in the northern counties. Contrary to the usual condition, there were more rainy days in the eastern half of the State than there were in the western half, the difference being an average of 17 to 12. Frequent light rains, with seasonable temperatures, were favorable for growing crops, but delayed harvesting and haying, and caused considerable losses of grain and hay in the fields. Corn made a very rapid growth, and much of the crop that seemed hopeless at the end of July, gave promise of fair returns. The conditions favored orchard fruits, except that the excessive rains caused some rot in pears. Peaches of good quality came to market in large quantities. Apples were reported good except in a few counties where they had dropped from the trees very freely. On the whole the apple crop promised to be more than double that of last year. The rains were very beneficial to pastures and meadows, which were drying out during the latter part of July, and a rapid improvement resulted. The oats crop was an excellent one and for the State as a whole it seemed to be better than the average, but the rainy weather spoiled considerable grain in the southeastern counties. Potatoes were exceptionally fine at the beginning of the month, but the continuous rains in the southeastern counties caused considerable rot. Blight appeared early in the month in Northampton and portions of the adjoining counties, and near the close of the month it was reported from many places in the eastern half of the State. In most cases it came late enough so that the damage was not heavy, and the potato crop for the State as a whole promised to be about an average one. Truck crops gave heavy yields of good to excellent quality, but became very weedy when cultivation was stopped by the frequent rains. Tomatoes were very plentiful, and cheaper on the market than for several years. Sugar corn was abundant and was of better quality than usual. There was about the usual number of damaging storms, with resultant losses from wind and lightning. The month was very disagreeable in the southeastern portion of the State, owing to the excessive moisture which made even seasonable temperatures very oppressive.

TEMPERATURE.

The mean temperature for the State, as determined from the records of 68 stations, was 70.2°, or 0.2° above the August normal. The highest temperature recorded was 95° at Lancaster on the 9th, and the lowest was 37° at West Bingham on the 3d. The highest monthly mean was 75.2° at Phoenixville, and the lowest was 61.5° at Beaver Dam. The above values are all well within average limits.

PRECIPITATION.

The average rainfall, as measured at 121 stations, was 4.66 inches, which is 0.64 inch more than the August normal. The greatest amount for the month was 9.29 inches at Lancaster, and the least was 1.93 inches at Ridgway. The average number of days with .01 inch or more was 15, the greatest number being 22 at Lebanon, and the least number 6 at North Shenango. Rain occurred somewhere in the State on every date except the 3d and 4th, although there was very little on the 5th, 26th, and 27th. From the 6th to the 25th inclusive a showery condition persisted throughout the eastern half of the State.

BAROMETRIC PRESSURE AND WINDS.

Stations.	In inches, reduced to sea level.					Total movement, in miles.	Velocity, in miles per hour.			
	Average.	Highest.	Date.	Lowest.	Date.		Average.	*Highest.	Direction.	Date.
Erie.....	30.04	30.27	18	29.75	21	7.975	10.7	35	s.	20
Harrisburg.....	30.07	30.31	19	29.74	31	3.545	4.8	27	w.	31
Philadelphia.....	30.07	30.33	19	29.69	31	5.897	7.9	26	s.	14
Pittsburgh.....	30.06	30.24	18	29.81	21	6.459	8.7	34	nw.	30
Reading.....	30.06	30.32	19	29.70	31	3.718	5.0	37	n.	31
Scranton.....	30.08	30.36	19	29.70	31	3.688	8.0	30	sw.	31

* For any five-minute period.

SUNSHINE AND HUMIDITY.

Stations.	Sunshine.					Humidity.		Fog.	
	Total hours of Sunshine	Number of hours possible.	Percentage of possible.	Number of days with.		Average per cent.		Number of days with.	
				80 per cent or more.	20 per cent or less.	8 a. m.	8 p. m.	Light fog.	Dense fog.
Erie.....	223.0	428.7	52	5	6	75	74	1	0
Harrisburg.....	245.0	425.1	58	7	3	84	74	0	0
Philadelphia.....	206.1	425.1	48	5	3	86	80	2	0
Pittsburgh.....	214.8	426.9	50	6	4	82	69	7	2
Reading.....	183.0	425.0	43	4	6	82	77	8	0
Scranton.....	.....	.....	.....	1	17	85	73	19	0

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	69.8	100	33	7.05	11.27	3.18	.....	.....	.....
1889.....	67.4	100	37	3.24	7.07	0.83	.....	.....	.....
1890.....	68.8	98	34	5.76	9.65	2.58	9	14	8
1891.....	69.6	99	35	5.09	11.77	1.43	8	12	11
1892.....	71.4	99	42	3.77	7.64	1.07	14	7	10
1893.....	70.4	99	30	4.50	9.99	1.68	14	10	7
1894.....	69.4	98	32	1.84	5.51	0.17	13	12	6
1895.....	72.3	101	32	3.23	6.03	0.59	15	11	5
1896.....	71.2	101	35	2.22	6.53	0.45	14	11	6
1897.....	67.9	97	34	3.17	8.60	0.34	14	11	6
1898.....	72.3	99	37	6.60	11.32	3.72	11	11	9
1899.....	71.2	101	38	4.01	10.09	0.07	14	10	7
1900.....	75.0	103	38	3.33	5.78	0.84	14	12	5
1901.....	72.0	99	42	6.81	13.65	2.48	10	12	9
1902.....	67.8	100	34	2.62	6.44	0.51	13	13	5
1903.....	67.2	99	36	5.29	8.05	2.00	9	12	10
1904.....	68.0	96	34	4.36	9.64	1.66	15	10	6
1905.....	69.6	95	36	5.71	10.83	1.32	12	12	7
1906.....	73.2	96	39	5.62	11.65	1.62	10	12	9
1907.....	68.0	97	32	2.94	6.19	0.77	16	9	9
1908.....	69.4	102	30	3.22	8.06	1.22	15	10	6
1909.....	69.4	100	34	2.31	7.76	0.12	16	9	6
1910.....	69.8	98	35	2.61	6.46	0.55	14	10	7
1911.....	71.4	102	36	7.63	15.14	2.60	11	8	12
1912.....	67.1	93	36	5.02	9.65	1.68	9	12	10
1913.....	70.4	102	38	2.69	10.93	0.70	17	9	5
1914.....	71.3	100	34	3.85	7.20	0.64	13	11	7
1915.....	68.0	99	34	6.71	14.44	1.92	10	11	10
1916.....	71.9	103	32	2.57	7.08	0.21	17	10	4
1917.....	71.2	101	38	6.69	17.50	1.06	15	10	6
1918.....	73.6	108	32	4.12	8.02	1.05	16	10	5
1919.....	68.2	94	35	5.43	12.03	2.35	13	10	8
1920.....	70.2	95	37	4.66	9.29	1.93	9	12	10

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.		Date.	Lowest stage.		Date.	Flood stage.
		Highest stage.	Lowest stage.		Highest stage.	Lowest stage.		
Port Jervis.....	Delaware.....	3.1	5.1	16	2.3	9	18	
Phillipsburg.....	Delaware.....	2.6	4.7	19	1.6	11	22	
Mauch Chunk.....	Lehigh.....	4.5	5.2	19	4.2	9	15	
Wilkes-Barre.....	Susquehanna.....	4.7	9.5	19	3.1	10	20	
Williamsport.....	Susquehanna.....	6.6	2.9	19	0.6	6	20	
Harrisburg.....	Susquehanna.....	4.2	5.7	21	3.6	6	17	
Freeport.....	Allegheny.....	3.9	6.4	20	2.6	7	22	
West Newton.....	Youghiogheny.....	1.4	3.2	14	0.7	28	23	
Greensboro.....	Monongahela.....	7.7	9.7	13	7.0	4	18	
Pittsburgh.....	Ohio.....	5.6	6.1	14	4.9	15	22	
Beaver Dam.....	Ohio.....	8.3	9.8	18	7.0	9	27	

Climatological data for August, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	33																	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	36																	Prof. Chas. H. Rominger.
Bustleton.....	Philadelphia.....	125	1	72.9		91	17	52	3	30	8.36		1.55	0	19	6	9	16	s.	Experiment Station.
Carlisle.....	Cumberland.....	467	53	71.9	-0.8	89	16	48	3	26	6.87	+2.11	1.43	0	20	15	4	12	ne.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	23	72.8	+2.5	91	13†	49	3†	37	5.60	+1.54	1.85	0	16	16	9	6	w.	H. H. Yetter.
Center Hall.....	Center.....	1,272	24																	S. W. Smith.
Chambersburg.....	Franklin.....	631	25																	Shirley J. Zarger.
Clearfield.....	Clearfield.....	1,120	10	70.4	0.0	88	5†	43	2	39	4.47	-0.37	1.32	0	17	13	13	5	sw.	E. W. Hess.
Coatesville.....	Chester.....	380	32	73.8	+4.1	90	8	52	3	30	5.93	+1.56	1.15	0	17	6	13	12	sw.	Prof. W. T. Gordou.
Colebrook.....	Lebanon.....	560	10	71.6		88	8	47	3	33	5.67		1.49	0	21	12	9	10	sw.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	32	66.6	-1.3	92	17	41	2	38	4.39	+0.42	1.88	0	12	7	17	7	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	366	28								4.06	-0.84	1.13	0	11				sw.	Jacob Eichelberger.
Everett.....	Bedford.....	1,080	22																	T. C. Matten.
Freeland.....	Luzerne.....	5	68.5			87	12	47	23	26	4.69		1.88	0	19	7	15	9	sw.	Theo. Reichmann.
George School.....	Bucks.....	190	13	71.9	+0.5	91	17	50	3	28	7.54	+3.16	1.65	0	18	5	13	13	e.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	46	73.4	+1.7	94	8	49	3	38	7.38	+3.40	1.57	0	18	4	18	9	sw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	16	69.2	+1.0	86	7†	44	3	32	4.32	-0.55	0.74	0	20	16	7	8	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	27	68.8	-3.1	87	15†	42	26	30	5.05	-0.28	1.55	0	19	9	16	6	ne.	State Sanatorium.
Hanover.....	York.....	600	16	73.3	-0.3	94	8	51	3	31	5.27	+0.50	1.48	0	18	12	12	7	sw.	Miss Olive M. Ryder.
Harrisburg.....	Dauphin.....	361	50	72.4	-0.3	89	8	55	3	23	8.84	+4.75	2.46	0	21	3	6	22	w.	U. S. Weather Bureau.
Honesdale.....	Wayne.....	1,150	18																	Frank X. Stegner.
Huntingdon.....	Huntingdon.....	650	32	71.4	+0.7	90	7	46	2	34	4.86	+0.83	1.10	0	18	7	12	12	w.	Prof. W. J. Swigart.
Kennett Square.....	Chester.....	340	48	72.0	+0.1	86	17	52	3	23	6.25	+1.29	1.60	0	14	4	17	10	sw.	W. P. Mercer.
Lancaster.....	Lancaster.....	255	32	73.3	+0.6	95	9	49	3	32	9.29	+5.44	2.76	0	18	7	17	7	e.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	22	68.3	+0.2	89	7	45	2	36	2.46	-1.38	1.06	0	8	16	11	4	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	79	73.3	+1.3	89	9†	49	3	30	6.60	+2.05	1.18	0	22	10	17	4	se.	S. B. Benzing.
Lewisburg.....	Union.....	450	45	71.8	+2.9	88	8†	46	3	35	5.51	+0.86	1.20	0	17	18	13	0	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	32	70.0	-1.3	90	17	42	2	39	5.09	+0.94	1.23	0	17	2	23	6	sw.	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	5	71.2		89	8†	43	3	35	4.60		0.92	0	20	9	11	11	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	30	71.6	+1.3	90	8†	48	3	36	4.58	-0.42	1.37	0	15	14	10	7	s.	R. K. Wintermute.
Media.....	Delaware.....	103	5			87	14†				8.69		2.25	0	13	10	7	14	s.	North Springfield Water Co.
Millintown.....	Juniata.....	445	16	70.4	-0.2	88	8†	47	3	32	7.79	+2.82	2.01	0	20	8	8	15	w.	Wellington Smith.
Milford.....	Pike.....	500	17	67.4	-0.3	85	8	45	3†	32	3.31	-0.96	0.88	0	7	13	17	1	w.	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	17	69.0	+2.1	85	15	49	2	20	5.85	+1.75	1.35	0	13	14	9	8	s.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	18	61.7	-2.5	79	7	42	3	29	3.11	-1.27	1.00	0	17	7	13	11	sw.	Cecil J. Hoskinson.
Muney Valley.....	Sullivan.....	1,045	8	69.0		87	17	39	3	38	7.14		1.60	0	15	11	8	12	.....	S. P. Worthington.
Narberth.....	Montgomery.....	300	1	73.2		90	17	52	3	27	7.18		2.00	0	21	4	12	15	sw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	31	73.3		91	17	52	3†	27	8.73		1.60	0	17	10	8	13	s.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	3	71.5		88	17	49	3	30	2.01		0.66	0	10	8	11	12	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	49	74.3	-0.3	88	31	58	3	20	7.31	+2.88	2.11	0	18	3	6	22	e.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	4	74.4		90	17	58	3	20	7.37		2.10	0	19				.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	9	75.2		90	24	56	3†	27	5.28		1.02	0	15	8	10	13	sw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	35	71.5	+4.3	88	8†	47	3	33	6.74	+2.54	2.25	0	19	6	17	8	ne.	John E. Benner.
Reading.....	Berks.....	325	50	73.2	+0.8	89	17	54	3	25	4.34	+0.15	1.78	0	15	3	7	21	se.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	9	74.3		90	8†	52	3	30	4.74		0.85	0	18	6	10	15	w.	S. A. Clarke.
Seranton.....	Lackawanna.....	805	25	70.8	+1.6	88	12	49	3	28	3.33	-0.34	0.92	0	14	2	12	17	n.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	31	72.6†	+1.1	93†	14	46	3†	31†	6.03	+1.68	1.56	0	19	2	16	13	se.	J. M. Boyer.
Shawmont.....	Philadelphia.....	51	24	75.1		88	1†	56	3	25	7.33	+2.31	1.40	0	17				.....	W. S. Gulies.
State College.....	Center.....	1,217	35	66.6	-2.1	83	13	44	3	29	5.44	+1.74	1.62	0	15	12	13	6	sw.	Prof. Wm. Frear.
Towanda.....	Bradford.....	754	25	69.2	+0.7	88	7†	47	2†	34	2.72	-1.06	0.77	0	14	9	12	10	e.	Hiram E. Bull. C. E.
Wellsboro.....	Tioga.....	1,419	55	65.8	-0.6	85	8†	41	2	37	2.39	-1.35	0.81	0	12	18	9	4	sw.	George W. Hill.
West Chester.....	Chester.....	455	87																	J. C. Green, D. D. S.
Williamsport.....	Lycoming.....	521	33	71.8	+1.1	88	7†	50	2†	33	7.76	+3.54	1.83	0	17	9	7	15	nw.	Jacob April.
York.....	York.....	400	32	73.7	+1.1	94	8	46	3	31	7.12	+2.87	1.01	0	18	6	10	15	nw.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	27	61.5		89	5†	49	2†	35	2.60	-1.13	0.70	0	13	3	15	13	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	5	72.4		88	7	42	3	36	4.18		1.57	0	12	10	11	10	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	2	67.8		86	7	41	2	36	2.93		0.60	0	10	9	11	11	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	29	65.8 ^b		88 ^b	15	40 ^b	2†	40	3.02	-1.05	1.60	0	11	15 ^b	10 ^b	4 ^b	.....	John Fawcett.
Clarion.....	Clarion.....	1,500	25								3.23	-0.70	0.67	0	13				w.	N. A. Goble.
Claysville.....	Washington.....	1,150	16	71.5		90	5†	42	3	37	4.03	-0.05	1.36	0	11	10	16	5	w.	F. T. Buchanan.
Corry.....	Erie.....	1,400	7																	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	23	69.8	-1.5	89	8	42	3	39	4.37	+0.37	1.09	0	12	14	13	4	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	2	65.8		83	15†	38	3	39	4.72		0.98	0	14	8	16	7	ne.	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	3	66.8		86	18	40	3	37	6.23		0.88	0	21	5	17	9	w.	J. D. Miller.
Franklin.....	Venango.....	1,000	47	69.2	+0.9	87	15	46	3	35	2.85	-0.92	1.08	0	11	18	3	10	w.	F. E. Dixon.
Greensburg.....	Westmoreland.....	1,150	12	70.4	-0.8	87	8	45	3	31	4.06	+0.0.								

Daily precipitation for August, 1920.

Stations.	Watershed.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic Drainage.																																			
Allentown|||	Lehigh	.02	.06			.09			.20	.72	.09	.31	.40	.26	.30	.28	.40	.09	.21	.09	.46		.21	.20								.18	4.07		
Altoona	Juniata								.30		.65	.10	.01	.67	.11		T.	T.					T.	T.						T.	.25		.10	2.27	
Ansonia|||	Pine Creek	.08										.05						T.	.85	.52	1.95	.04	.03							.54	.17	.06	.05	7.02	
Arendtsville.	Potomac	.86					1.11																		.04	.15									
Austin	W. Br. Susq.								1.43	.11		1.35	.34					.47	.42	.40		.06		.03							.20		.28	5.52	
Bellefonte.	do	.43																																	
Bethlehem	Lehigh																																		
Bloersville	Lower Susq.	.50					.25	.35	T.	.24		.14	.23			.16	.28	.31	.22	.34	.06	.75	.23							1.15	.12	.35		5.68	
Bustleton	Lower Del.	.28	.02				1.55	.56	.88		.08	1.30	.33	.02		.63	.06	.09	.87		.04	.01	.95							.31		.19	.19	8.36	
Carlisle	Lower Susq.	.41					.26	T.	1.43	.05	.03	.07	.10	.15		T.	.06	.55	.33	.02	1.31	.08	.08	.04	T.	T.				.40	1.00	.05	.45	6.87	
Catawissa	N. Br. Susq.	.03					.13	.38		.03	.38	.07		.07		T.	.14	1.85	1.02		T.	.03	.58		T.					.68	.04	.16	.01	5.60	
Center Hall	Susquehanna																																		
Chambersburg.	Potomac																																		
Clearfield	W. Br. Susq.	.25							.18	.25	1.32	.14	.03	.30	.02		.60	.30	.20	.10	.11		.28							.15	T.	.18	.06	4.47	
Coatesville.	Lower Del.	.70	.01				1.15	.07	.39		.75	.32	T.	.86	.04		.05		.02	.34	T.	.31	.50							.38	.01			5.93	
Colebrook	Lower Susq.	.42	.01				.17	*	1.49	.01	.15	.02	.58	.27	T.		1.06		.27	.03	.01	.15	.11		.01	T.				.53	.04	.02	.32	5.67	
Cresson	Juniata	.06					.76	.33	.04	.15	.51	.03	.86	.19			.25	.26		.31	.15	.06	.23							.20		.80		5.19	
Doylestown	Lower Del.	.89					.37	.48	.60	*	.51	.40	1.66	.22	.02		.02	.16	.06	.28		.04	.02	.02						.22		.10		6.17	
Driftwood	W. Br. Susq.						.01	T.			2.00			.02	.01	.01	.08	.01			T.		.02							.01	T.			2.17	
Emporium	W. Br. Susq.	.08					.08			.32	.48				.68	.09	1.88	.17			T.	.25								.11	.20	.05		4.39	
Ephrata	Lower Susq.						.49	.30	.40	.10						1.13			.80	.13	.06	.22	.11							.32				4.06	
Everett	Juniata																																		
Freeland|||	Lehigh	1.88					.06	.11		.16	.15	.11		.04	.12	.16	.07	.63	.16	.08		.04	.11							.10	.36	.24	.12	4.69	
George School.	Lower Del.	.84					1.65		1.03		.04	.92	.54	.04		.03	.04	T.	.15	.01	T.	.11		.45						.30	.11	.01	.15	7.54	
Gettysburg.	Potomac	.32					.26	.07			.21	.17		.26		.56	.16	.25	1.34	.92	1.57	.06	.37			.10				.28	.41	.27		7.38	
Girardville.	Schuylkill.	.32					.40		.08	.10	.42	.07	.02	.48		.12	.30	.16	.63	.02	.02	.17	.23							.22	.10	.17		4.03	
Gordon	Lower Susq.	.62					.22	.14	.21	.04	.06	.21		.09	.06	.13	.19	.07	.74	.11		.21								.09	.64	.06	.21	4.32	
Gouldsboro||	Lehigh	.51					.10	.08	.12	.06		.08		.05	.34		.06		2.60	1.45			.21								.38	.06	.04	6.14	
Grater's Ford.	Schuylkill.				.22		.16	.96	.22	.18		.42	1.62	.04		T.	.03			.02		.04		.02						.05	.12	.03		4.13	
Hamburg	Schuylkill.	.10				.20	.42	1.55		.12	.16	.10	.21	.10		.60	.10	.30	.05	.05	.07	.05								.36	.40	.10		5.05	
Hanover.	Lower Susq.	.52					.16		.12		.25	.07		.24		.13	.05	.08	.30	1.05	1.48	.04	.19			.05				.36	.15	.03		5.27	
Harrisburg***	do	.15				.02	.22	2.07	.04	T.	.97	.03	.46		.01	.04	.33	.10	2.46	.03	.21	.05	T.		.01	T.				.60	.75	.08	.21	8.84	
Holtwood|||	Lower Susq.	.08					.14	.34	.06		.41	.61	.65	.31		.07		1.95	1.48	.80	.72	.12	.23	.32		.03				.19	.31	.01		8.83	
Honesdale	Lackawaxen																																		
Huntingdon	Juniata	.34					.65	.92	.29	.06	.13		.04	T.		.05	.39	.05	.06	.13	.15	.04								.15	.02	.29	1.10	4.86	
Jersey Shore.	W. Br. Susq.						T.	1.13	.05		.52	.13		.27	.30	T.	.15	T.	.02	1.50	T.	.48								.05	.70	.13		5.43	
Karlsruhe	do						.20	.15			.95		.10	.12		.08	.16			.08	.15									.25	.20	.30		3.54	
Kennett Square.	Delaware	.63	.10				.97	.58			.37	1.60		.27			.07			.28		.64	.13	.11	T.	.14				.36				6.25	
Lancaster	Lower Susq.	.94					.18	.15	.22	.08	.15	.11	.07	.57			2.76	.41	.20	2.60	.04	.23								.31	.21		.06	9.29	
Lansford|||	Lehigh																																		
Lawrenceville	N. Br. Susq.						.21	.29	.20	T.	.97	1.01	.07	.44			.20	.20	.10	.20		.10									.05			2.46	
Lebanon	Lower Susq.	.97	.01				.21	.29	.20	T.	.97	1.01	.07	.44			.20	.20	.10	.20		.10	.05	.05	T.	.03				.18	.15	.03	.03	6.60	
Lewisburg	W. Br. Susq.	.20	T.				.25	.63	.09		.55	.60	.05	T.	.02	.53	.33	.10		.15	T.	.05	.10								.55	1.20	.17	5.51	
Lloyd	Pine Creek						.41	.04			1.32	.37		.05	.35	.48	.34		.09			.12									.54		.12	4.23	
Lock Haven.	W. Br. Susq.						.04	.49		.02	1.23	.18		1.23	.05	.23	.02	.01	.45	.06	T.	.34									.06	.51	.12	.05	5.09
Lykens	Susquehanna	.77					.15	.20	.31	.02	.05	.23		.19	.01		.59	.23	.06	.15	.05	.10	.04							.13	.92	.03	.37	4.60	
Manch Chunk.	Lehigh	.17					.25	.29		.22	.36	.39		1.37			.07	.55	.35			.04									.17	.15	.10	4.58	
Media	Lower Del.	.16				1.15	.22	.25	.30		2.10	.45				.28	.14		.23		.39		.74		.30						.20			8.69	
Millintown	Juniata	.37					.45	2.01	.39	.09	.70	.90	.10	.02	.10		.06	.63	.08	.05	.49	.04								.53	.12	.48	.18	7.79	
Millford	Upper Del.						.40				.08	.65	.55	.88		.43						.32												3.31	
Montrose	N. Br. Susq.						.27				1.03	.20	.20	.08	.0																				

Daily temperatures for August, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
Atlantic Drainage.																																	
Altoona.....	Maximum.....																																
Bethlehem.....	Maximum.....																																
Bustleton.....	Maximum.....	82	80	82	80	84	81	86	87	85	83	84	86	84	86	85	82	91	84	71	77	79	84	80	76	80	80	81	72	82	80	85	81.9
Carlisle.....	Maximum.....	64	57	52	54	57	65	68	63	67	69	70	66	68	70	72	72	70	68	62	60	65	69	60	63	62	59	57	57	64	65	66	63.9
Chambersburg.....	Maximum.....	73	74	77	81	82	80	87	88	86	85	83	85	85	87	88	89	88	84	78	70	77	82	73	75	80	81	78	70	74	86	83	80.9
Clearfield.....	Maximum.....	61	53	48	50	56	66	66	64	63	70	67	63	67	70	70	71	70	68	66	59	67	68	58	60	65	60	57	62	61	63	62	62.9
Emporium.....	Maximum.....	75	78	80	84	88	85	88	88	87	81	83	89	87	85	86	84	80	84	88	87	78	70	81	83	82	84	78	75	83	87	83	82.8
Gettysburg.....	Maximum.....	58	43	45	47	49	54	63	62	61	66	58	59	65	64	66	67	64	61	59	58	64	63	52	46	55	57	51	59	60	64	60	58.1
Gordon.....	Maximum.....	71	65	72	78	80	79	85	83	81	81	80	83	81	71	84	78	92	81	88	71	75	72	72	74	78	78	75	72	78	82	77	78.0
Harrisburg.....	Maximum.....	50	41	44	44	58	52	60	57	57	64	64	60	60	50	56	60	55	50	50	58	66	60	47	44	54	57	50	58	58	64	60	55.1
Honesdale.....	Maximum.....	78	76	81	85	85	89	91	94	88	85	88	90	89	91	90	92	90	89	75	68	84	90	77	75	82	85	83	70	80	91	89	84.5
Lancaster.....	Maximum.....	62	52	49	50	56	57	68	62	65	69	67	63	67	70	71	72	67	65	66	60	67	62	59	61	63	57	58	60	62	64	63	62.2
Lebanon.....	Maximum.....	78	74	76	76	80	81	86	86	84	80	81	86	80	85	86	84	81	78	70	72	77	76	77	78	77	75	74	75	75	80	79.2	
Lock Haven.....	Maximum.....	46	49	44	46	48	62	63	56	63	69	64	56	62	66	64	66	68	67	66	55	62	64	56	57	62	62	50	59	59	60	61	59.1
Mauch Chunk.....	Maximum.....	70	71	76	80	81	81	86	89	84	80	85	82	83	85	85	84	86	84	71	70	78	80	74	74	76	80	78	68	78	87	85	79.7
Mifflintown.....	Maximum.....	62	58	55	58	61	67	64	66	68	70	69	66	69	73	73	72	70	70	66	61	64	63	59	64	66	62	59	62	65	67	66	65.0
Montrose.....	Maximum.....	78	77	80	83	85	78	86	90	85	85	83	88	85	84	85	81	90	86	75	77	79	83	80	81	84	85	82	75	82	87	84	82.5
Muncy Valley.....	Maximum.....	62	51	47	49	58	64	63	61	61	68	64	59	67	67	66	70	68	67	65	61	63	66	53	57	63	59	54	60	64	61	61.2	
Narberth.....	Maximum.....	77	77	75	77	80	78	79	85	83	83	82	83	81	82	82	81	84	77	76	75	73	72	74	78	77	78	75	78	83	78	78.6	
Philadelphia.....	Maximum.....	55	51	45	45	50	56	63	54	58	66	64	68	60	65	64	66	62	62	61	47	56	61	54	50	55	47	46	48	55	56	56.3	
Reading.....	Maximum.....	74	66	72	79	78	74	81	80	79	78	79	83	79	82	85	78	82	81	75	72	68	74	75	81	78	78	70	71	81	75	76.6	
Scranton.....	Maximum.....	55	49	55	60	60	62	64	63	66	68	65	65	67	65	74	68	65	62	64	57	52	50	62	57	62	68	60	59	58	62	61.5	
State College.....	Maximum.....	77	78	76	83	82	80	85	85	85	85	79	85	82	84	86	85	82	82	72	75	76	71	74	80	82	84	80	71	76	85	80.3	
Stroudsburg.....	Maximum.....	46	54	39	45	49	46	63	55	61	70	62	61	61	64	63	66	68	61	66	56	63	58	53	52	61	55	50	57	59	66	57.6	
Towanda.....	Maximum.....	80	78	79	80	82	84	86	87	86	84	84	86	83	87	84	85	90	83	74	76	78	74	78	75	79	81	81	81	86	87	81.9	
Wellsboro.....	Maximum.....	63	57	52	54	58	64	68	63	69	71	70	67	69	74	71	72	69	68	65	60	65	69	59	63	61	59	58	59	65	66	69	64.4
Williamsport.....	Maximum.....	74	78	78	78	83	79	86	86	86	82	83	86	85	87	84	85	87	82	75	76	76	73	72	74	77	79	80	69	83	88	80.9	
York.....	Maximum.....	66	62	58	64	67	66	70	72	71	71	71	71	71	73	74	74	73	69	66	65	68	66	62	66	64	66	63	65	66	69	72	67.7
.....	Minimum.....	73	75	79	80	83	79	86	88	84	87	85	87	84	80	89	83	84	80	89	83	74	74	78	82	76	79	80	79	83	87	85	81.0
.....	Maximum.....	64	57	54	57	61	67	68	66	71	72	70	66	69	75	74	70	69	67	63	58	62	56	55	54	63	54	54	56	59	64	65	61.2
.....	Minimum.....	75	71	75	81	82	76	85	84	85	88	84	85	88	84	86	86	84	81	74	78	79	78	76	77	81	82	82	71	78	84	81	80.4
.....	Maximum.....	59	53	49	53	56	63	63	60	64	69	65	63	69	69	71	71	69	67	63	58	62	56	55	54	63	54	54	56	59	64	65	61.2
.....	Minimum.....	60	69	46	46	53	53	64	59	62	70	65	62	66	63	68	70	67	69	69	61	67	65	64	69	64	58	51	61	59	64	61	61.8
.....	Maximum.....	71	65	73	77	76	72	79	80	78	79	78	83	82	77	80	79	74	66	72	71	73	72	71	78	72	74	67	70	77	75	75.2	
.....	Minimum.....	55	46	44	50	50	61	62	61	60	65	62	59	63	66	64	65	64	61	64	58	62	61	53	49	55	56	53	54	57	62	59	58.1
.....	Maximum.....	74	66	73	81	82	78	88	86	85	84	78	85	86	88	85	82	83	81	75	77	78	71	73	77	82	81	80	71	78	85	81	79.8
.....	Minimum.....	56	47	48	47	50	55	64	57	62	67	65	61	68	65	65	69	66	64	66	54	61	59	51	50	60	55	50	54	62	62	58	58.6
.....	Maximum.....	71	62	71	81	82	77	83	85	80	82	80	85	79	67	85	78	70	73	75	68	70	73	75	68	70	73	80	80	78	65	74	76.7
.....	Minimum.....	49	41	43	44	46	49	62	58	59	64	61	58	62	65	61	65	66	60	58	53	60	55	49	43	52	54	45	53	56	61	56	54.9
.....	Maximum.....	78	76	79	83	84	81	88	86	85	85	82	85	85	87	86	85	87	86	74	76	76	76	77	80	82	83	81	77	76	88	85	81.9
.....	Minimum.....	60	50	50	50	55	63	65	61	64	68	66	64	67	66	68	70	66	70	59	63	62	54	54	63	61	53	61	59	64	63	61.6	
.....	Maximum.....	80	75	77	81	83	86	89	94	87	83	90	84	88	87	92	92	85	88	81	83	86	74	74	82	82	80	74	81	90	89	84.0	
.....	td																																



Scale of Shades.

[White box]	0 to 1 inch.
[Diagonal lines \]	1 to 2 inches.
[Diagonal lines /]	2 to 4 inches.
[Cross-hatch]	4 to 6 inches.
[Dense cross-hatch]	Over 6 inches.

Scale of Miles
0 10 20 30 40 50 60 70 80 90 100
Scale of Kilometers
0 10 20 30 40 50 60 70 80 90 100

Daily precipitation for August, 1920. - Continued from page 61.

Stations.	Watershed.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Creekside.....	Allegheny.....	.30								.46			.36	.18			.20						.30						.48				2.28				
Davis Isl. Dam|||	Ohio.....	.10						.22	T.	.28	.95		.08		.15	1.00							.03						T.	.39	.04	.75	3.99				
Derry.....	Conemaugh.....						.28		.50	.37	.59	T.	.21	.02			.52	.02				T.	.21						.20	.36	1.09	4.37					
Ebensburg.....	Conemaugh.....	.87					.16	.06	.76	.18	.87	.04	.11				.30	.25			.05	.04	.05									.98	4.72				
Edinboro.....	Allegheny.....								.67	.18	.05			.30			.16	.58					.11						.14		.08		2.27				
Elk Lick.....	Youghiogheny.....	.82					.20	.63	.02	.04	.20	.08	.88	.23		.38	.14	.15	.02	.27	.17	.02	.79	.02				T.	.72	T.	.07	.38	6.23				
Falls Creek.....	Allegheny.....	.26					.06	.20	1.10	.08			.03	.02	.02	.76	.25			.11			.10						.15		.34	.08	3.56				
Franklin|||	Allegheny.....	.37							.05	.09	.45	T.		.14			.37	.02					1.08						.18		.04	.06	2.85				
Freeport|||	Allegheny.....	.83							.34	T.	.49	.20		.05		.05	.40						.11								.06	.23	2.76				
Greensboro|||	Monongahela.....	.70	.50				T.	.14	.06	T.	.28	.22		1.10							.12		.64	.06						.20			4.02				
Greensburg.....	Youghiogheny.....	.41					1.38	.15	.12	.09	.49		.12			.05	.39	T.		T.		.22	.40							.08	.16		4.06				
Greenville.....	Beaver.....																																				
Grove City.....	Youghiogheny.....	.13							.25	.22	.08		T.	.08	.03	T.	1.17					T.	.06						T.	.03		T.	.40	2.45			
Herr's Isl. Dam|||	Ohio.....	.75						T.	.20	T.	.35	.76		.10		.05	.24	T.			T.		.16						T.	T.	.05	.51	3.17				
Indiana.....	Conemaugh.....								.23	.05	.83	.01	.25			.30	.30	.16						.35						.24	.25	.34	3.91				
Irwin.....	Youghiogheny.....	.46							.10	.31	1.05		.13	.02			.24					.11	.49		T.				.06		.12	.28	3.37				
Johnstown.....	Conemaugh.....	.21					.26	.15	.82	.46	.05	.03	.17	.04	T.	.01	.25		T.			.06		.24					.01	.34	.05	.87	4.02				
Ketner.....	Allegheny.....	.16									.21	.42	.05	.17	2.00		.32	.59	.12	.07			.04						.13		.50		4.78				
Linesville|||	Beaver.....	.02							.12	.48	1.21	.05		.54	.30		.03						.03	.01					T.	T.	.27	.02	3.30				
Lock No. 4|||	Monongahela.....	.78					.76		.30	.04	1.05	.23		.18			.03				.09		.03	.06					T.		.23	.53	4.31				
Lycippus.....	Conemaugh.....	.18					.12		.08	.07	1.03		.36			.09	.41					T.	.39							T.	.03	.66	.03	2.62			
Mosgrove|||	Allegheny.....	1.14							.31		.20	.15		.14		.24	.33		.49		.07		.18						.25		.15	.85	4.50				
New Castle.....	Beaver.....																																				
North Shenango.....	Beaver.....	.05						T.		.10	.90		1.30			.12						.14											2.61				
Parkers Landing|||	Allegheny.....	.78							.25	T.	.28	.02		T.	.06		2.00			T.		.06							.15		.30	.45	4.85				
Pennline.....	Beaver.....									.30	.30	.26		.21	.50		.03		.40			.02	T.						.03	.74		2.79					
Pittsburgh***	Ohio.....							T.		.27	.29	.63		.08	T.		.02	.17		T.	T.		.28	.06					.01	T.	.03	.66	.03	2.53			
Ridgway.....	do.....	.20						.01		.07			.52	.02	.30		.26	.16				.06								.16		.17		1.93			
Saegertown.....	do.....																																				
Saltsburg|||	Conemaugh.....	.82							T.		.51	.10		.79		.07	.34	T.	.02			T.	.14	T.					.15		.09	.72	3.75				
Shanksville.....	Conemaugh.....	1.01					.20	.36	.25		.45	.10	.64	.79		.06	.10	.18	.08	.10	.07	.13	.19	.02					.47		.30	5.50					
Sharon|||	Beaver.....		.75						.08	.25	.26			.19	T.	.58						.20								.04	T.	.07	.38	2.80			
Somerset.....	Youghiogheny.....	.85							.33	.55	.05	.43	.20	.22		.52				T.	.10	.05	.65						T.	.30	.20	.25	.28	8.03			
Springdale.....	Monongahela.....	1.22							.61	T.	.43	.87		.10		.67	.46	.02				.19							.04		.27	.90	5.48				
Summit.....	Beaver.....								.31	.30	.80	.04	.15		.65					.17				.05						.21		.21	2.98				
Turnerville.....	do.....						.63	.15	.19	.47			.75	.55		.27						.05								.10	.22	.02	.57	3.30			
Uniontown.....	Monongahela.....	.75					.62		.30	.62	.43	.08	.40	.10	.08	T.	.77	T.		.13	T.	.20	.39	T.					.10	.22	.02	.57	5.78				
Vandergrift.....	Conemaugh.....	.20							.20	.45	.95		.10	.10		.11	.32					.55							.13		.35	.60	4.06				
Warren.....	Allegheny.....								.40	.20	.35			.02	.45		.62	.20	.16			.02							.04		1.26		3.72				
Westford.....	Beaver.....						.75	.14	.19	.55	.08			.56	.66		.48					.06									.17	T.	3.64				
West Newton|||	Youghiogheny.....	.40							.20	.60	.14			.43			.22			.08			.20	.10						.15		.30	.42	3.24			
Lake Drainage.																																					
Erie***	Lake Erie.....		T.							T.	.30	.01		T.	.23		1.41	T.				T.	.17							.14	.02		2.34				
West Bingham.....	Genesee.....	.10								.68				T.	.02	.35	.31	.13	.90				.03								T.	T.	2.52				

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

05
NP

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

PENNSYLVANIA SECTION

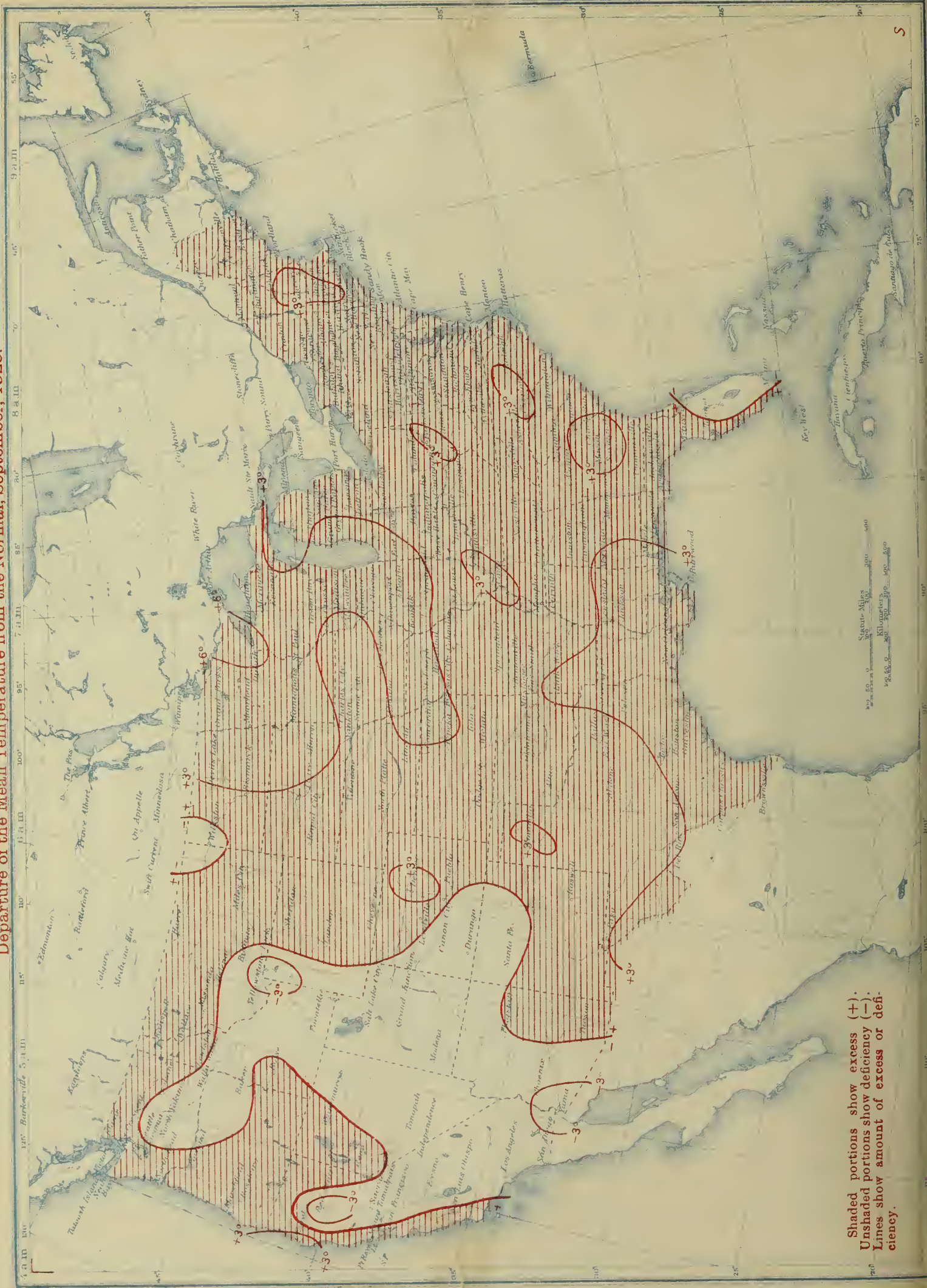
SEPTEMBER, 1920.

BY
GEORGE S. BLISS
METEOROLOGIST



PHILADELPHIA, PA.
WEATHER BUREAU OFFICE
OCTOBER 21, 1920.

Departure of the Mean Temperature from the Normal, September, 1920.



Shaded portions show excess (+).
Unshaded portions show deficiency (-).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.

VOL. XXV. PHILADELPHIA, PA., SEPTEMBER, 1920. No. 9.

GENERAL SUMMARY.

The weather for the month as a whole was unusually fine and pleasant. The greater portion of the rainfall occurred on three dates, and many of the lighter rains occurred at night. The conditions were very favorable for maturing crops and for all kinds of outdoor work. Early planted corn was denting at the first of the month and matured rapidly. By the middle of the month one half of the corn was beyond frost danger and the late plantings were denting and hardening rapidly. The frosts that occurred during the month were light at most places and did little damage to field crops. Potato blight was reported to be on the increase during the month, but it came so late that there was no material damage outside of five or six counties. Orchard fruits matured under favorable conditions and the quality was good to excellent. The yield of peaches was good, while the commercial crop of apples promised to be above the average and more than twice as large as it was last year. Pastures and meadows were in excellent condition, owing to the excessive rainfall during August. Late hay was cured with little loss and was a good crop. Pastures held up well all through the month. Wheat seeding was mostly finished in the northwestern counties during the last half of the month, but it was generally delayed in the remainder of the State until near the close of the month to avoid the ravages of the Hessian fly. Tobacco was cut and housed under favorable conditions. Considerable rust was reported, due apparently to the excessive August rains, but otherwise the yield and quality were good. Late truck crops and vegetables were unusually good and plentiful. Cabbages and tomatoes were of fine quality, and were plentiful and cheap. Sugar corn held up well to the end of the month and was much better than usual. Late celery was needing rain the last half of the month, but heavy rains on the 29th and 30th furnished relief. The rains of the 29th and 30th were excessive in many places and did some damage, especially to late fall and winter apples which were knocked from the trees. Buckwheat was mostly harvested during the month with little or no loss. In some parts of the State it was reported to be excellent, but the general average seemed to be below that of last year.

TEMPERATURE.

The mean temperature as determined from the records of 71 stations, was 64.5°, or 0.9° above the September normal. The conditions were generally mild except for a cool period about the 20th, when frosts occurred in nearly all parts of the State. The highest mean temperature was 69.6° at Philadelphia, and the lowest was 56.0° at West Bingham. The highest temperature recorded during the month was 91° at York, on the 26th, and the lowest was 24° at West Bingham on the 20th.

PRECIPITATION.

The average rainfall, from the records of 125 stations, was 3.99 inches, or 0.94 inch more than the September normal. The greatest monthly total was 9.40 inches at Mount Pocono, and the least was 0.97 inch at Sharon. The average number of days with .01 inch or more of rainfall was 9. The rainfall was very light from the 14th to the 27 inclusive. The top soil became dry in some places during that time, but otherwise the water supply was ample.

BAROMETRIC PRESSURE AND WINDS.										
Stations.	In inches, reduced to sea level.					Total move- ment, in miles.	Velocity, in miles per hour.			
	Average.	Highest.	Date.	Lowest.	Date.		Average.	*Highest.	Direction.	Date.
Erie.....	30.01	30.28	3	29.62	12	8,821	12.3	37	w.	18
Harrisburg.....	30.03	30.35	22	29.43	30	3,707	5.1	24	n.	30
Philadelphia.....	30.02	30.35	22	29.32	30	5,954	8.3	28	n.	13
Pittsburgh.....	30.04	30.28	3	29.66	30	6,380	8.9	36	w.	9
Reading.....	30.02	30.37	22	29.35	30	3,548	4.9	21	n.	1
Scranton.....	30.02	30.34	27	29.37	30	4,053	5.6	26	sw.	18

* For any five-minute period.									
SUNSHINE AND HUMIDITY.									
Stations.	Sunshine.					Humidity.		Fog.	
	Total hours of Sunshine	Number of hours possible.	Percentage of possible.	Number of days with.		Average per cent.		Number of days with.	
				80 per cent or more.	20 per cent or less.	8 a. m.	8 p. m.	Light fog.	Dense fog.
Erie.....	208.8	374.3	56	9	8	73	70	0	0
Harrisburg.....	282.7	373.5	76	17	3	79	68	4	3
Philadelphia.....	243.3	373.5	65	12	4	79	71	4	0
Pittsburgh.....	235.2	374.0	63	10	5	81	65	9	4
Reading.....	238.0	374.0	64	16	5	76	68	12	2
Scranton.....	.....	.....	.....	3	7	84	68	22	0

COMPARATIVE DATA FOR SEPTEMBER.									
Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	59.6	.....	.....	4.84	.....	.....	.....	.....	.....
1889.....	61.9	.....	.....	5.05	.....	.....	.....	.....	.....
1890.....	62.2	91	25	4.57	8.54	2.05	10	.....	11
1891.....	66.6	94	32	2.39	5.00	1.05	17	8	5
1892.....	62.4	90	29	2.81	4.85	1.18	16	7	7
1893.....	61.2	90	26	2.67	5.59	0.72	9	12	9
1894.....	66.6	95	24	6.30	12.36	2.82	10	16	10
1895.....	67.8	100	24	1.71	5.41	0.37	16	9	5
1896.....	63.6	98	26	4.82	8.57	1.73	13	8	9
1897.....	63.8	100	24	2.18	4.21	0.25	18	4	5
1898.....	66.0	100	25	1.70	3.95	0.38	16	8	6
1899.....	61.8	93	23	4.70	9.31	2.03	12	9	9
1900.....	68.4	100	27	1.77	6.90	0.48	13	10	7
1901.....	63.6	95	29	3.39	6.61	1.64	14	7	9
1902.....	62.7	99	28	4.66	11.95	1.50	12	8	10
1903.....	63.2	94	27	2.09	3.88	0.91	17	8	5
1904.....	63.7	95	21	3.37	7.40	0.82	13	10	7
1905.....	64.0	95	27	3.41	7.30	1.70	15	9	6
1906.....	67.0	99	30	2.46	6.57	0.36	15	9	6
1907.....	64.8	95	29	6.37	11.86	2.18	8	10	12
1908.....	65.6	99	26	1.60	4.06	0.51	17	9	4
1909.....	62.8	96	26	2.27	4.90	0.64	15	9	6
1910.....	65.5	95	32	4.49	8.45	2.26	13	8	9
1911.....	64.9	92	26	5.29	10.18	1.85	13	9	8
1912.....	65.5	95	25	5.57	11.43	2.47	12	7	11
1913.....	62.4	97	24	3.28	8.43	1.24	13	7	10
1914.....	61.5	98	21	0.99	2.67	0.03	18	7	5
1915.....	66.5	96	25	2.56	6.96	0.45	16	9	5
1916.....	62.5	98	23	3.77	8.18	0.91	17	8	5
1917.....	59.0	91	25	2.31	6.34	0.00	16	9	5
1918.....	58.7	88	28	3.97	7.52	1.82	12	8	10
1919.....	64.4	96	28	2.07	4.09	0.46	16	8	6
1920.....	64.5	91	24	3.99	9.40	0.97	16	8	6

RIVER CONDITIONS.									
Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.		
Port Jervis.....	Delaware.....	3.2	6.2	13	2.2	5	18		
Phillipsburg.....	Delaware.....	2.5	6.0	13	1.1	6	22		
Mauch Chunk.....	Lehigh.....	4.3	4.8	28-30	3.9	24	15		
Wilkes-Barre.....	Susquehanna.....	4.5	8.3	15	3.3	9	20		
Williamsport.....	Susquehanna.....	1.1	2.2	13-14	0.6	26	20		
Harrisburg.....	Susquehanna.....	4.2	5.0	17	3.7	5	17		
Freeport.....	Allegheny.....	2.9	4.1	12	2.2	25	22		
West Newton.....	Youghiogheny.....	0.5	1.6	29	0.1	26	23		
Greensboro.....	Monongahela.....	7.2	8.8	28	6.6	24	18		
Pittsburgh.....	Ohio.....	5.7	6.6	12	4.6	3	22		
Beaver Dam.....	Ohio.....	8.3	9.2	12	6.6	30	27		

Climatological data for September, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 0.1 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	33	63.2	+0.5	86	26	36	20	31	5.02	+2.25	1.17	0	11	17	11	2	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	36	67.5	+1.3	88	11	38	20	36	3.59	+0.17	1.98	0	4	10	18	2	.....	Prof. Chas. H. Rominger.
Bustleton.....	Philadelphia.....	125	1	67.0	.....	85	13†	37	20	35	2.68	.....	1.50	0	7	18	7	5	n	Experiment Station.
Carlisle.....	Cumberland.....	467	53	64.9	+0.2	85	25†	36	20	35	3.43	-0.25	1.55	0	7	22	2	6	nw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	23	64.8	+1.3	88	12	35	20	41	4.51	+1.09	2.37	0	8	23	3	4	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	24	.....	.....	87 ^b	26	34 ^b	20	38 ^b	2.23	-0.76	1.25	0	5	.....	.....	.....	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Shirley J. Zarger.
Clearfield.....	Clearfield.....	1,120	10	64.4	+2.0	90	26†	35	20	44	5.72	+2.70	1.45	0	14	16	10	4	sw.	E. W. Hess.
Coatesville.....	Chester.....	380	32	68.3	+2.2	85	12†	39	20	34	3.56	-0.42	1.62	0	8	14	11	5	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	32	60.8	-0.6	81	26†	33	20	39	5.16	+1.74	1.28	0	10	13	9	8	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	366	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacob Eichelberger.
Everett.....	Bedford.....	1,080	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. C. Matten.
Freeland.....	Luzerne.....	.....	5	61.5	.....	77	25	39	20	30	6.02	.....	2.54	0	10	16	7	7	sw.	Theo. Reichmann.
George School.....	Bucks.....	190	13	66.5	+1.6	86	24†	36	20	37	3.57	+0.59	1.34	0	10	17	8	5	s.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	46	66.9	+1.9	90	25†	37	20	41	6.28	+2.95	2.00	0	9	15	9	6	sw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	16	62.4	+0.6	86	26	29	20	38	6.43	+1.95	2.28	0	8	20	5	5	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	27	.....	.....	.....	.....	.....	.....	.....	5.06	+0.81	1.72	0	7	15	11	4	.....	State Sanatorium.
Hanover.....	York.....	600	16	68.3	+1.1	88	25†	44	3	31	3.47	+0.62	1.76	0	6	21	6	3	sw.	Miss Olive M. Ryder.
Harrisburg.....	Dauphin.....	361	50	66.6	+0.6	85	26	42	20	26	5.53	+2.19	2.00	0	9	14	10	6	n.	U. S. Weather Bureau.
Honesdale.....	Wayne.....	1,150	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Frank X. Stegner.
Huntingdon.....	Huntingdon.....	650	32	65.0	+0.7	87	26	37	20	41	6.03	+2.64	1.71	0	12	16	7	7	w.	Prof. W. J. Swigart.
Kennett Square.....	Chester.....	340	48	65.9	-0.3	80	24	40	20	29	6.16	+2.06	1.76	0	7	15	12	3	nw.	W. B. Mercer.
Lancaster.....	Lancaster.....	255	32	66.8	+2.3	88	26	35	20	46	2.82	-0.54	1.61	0	6	21	7	2	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	22	61.8	+0.5	84	12†	33	20	39	4.12	+1.07	1.30	0	8	12 ^b	11 ^b	6 ^b	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	79	67.7	+2.5	89	26	36	20	35	4.12	+0.93	1.64	0	5	22	6	2	w.	S. B. Benzing.
Lewisburg.....	Union.....	450	45	63.5	+1.5	85	12†	26	3	50	6.26	+2.74	2.08	0	15	25	3	2	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	32	64.3	-0.4	89	26	34	20	44	4.14	+0.57	1.58	0	12	11	15	4	w.	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	5	64.6	.....	88	26	30	20	43	7.13	.....	2.64	0	6	22	5	3	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	30	65.0	+1.0	88	12	35	20	40	7.24	+3.44	2.72	0	8	20	2	8	w.	R. K. Wintermute.
Media.....	Delaware.....	103	5	.....	.....	84	28	.....	.....	.....	2.95	.....	1.22	0	6	25	1	4	s.	North Springfield Water Co.
Millintown.....	Juniata.....	445	16	62.2	-1.6	85	12	35	20	33	5.74	+1.93	2.37	0	10	16	8	6	nw.	Wellington Smith.
Millford.....	Pike.....	500	17	61.8	+0.4	83	12	30	20	43	6.95	+3.30	3.05	0	5	19	9	2	w.	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	17	64.0	+3.9	80	12	45	19†	21	6.78	+2.97	2.15	0	8	17	6	7	s.	Silas Jagger.
Mount Pocono.....	Mourne.....	1,720	18	58.1	0.0	76	12	36	19	32	9.40	+4.61	3.00	0	9	23	2	5	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	8	62.8	.....	88	26	32	3†	44	4.86	.....	1.64	0	8	13	10	7	.....	S. P. Worthington.
Narberth.....	Montgomery.....	300	1	67.3	.....	85	24	39	20	33	2.91	.....	1.67	0	10	13	9	8	nw.	Charles Decker.
Neshaminy Falls††	Bucks.....	60	31	66.7	.....	86	25	36	20	36	5.30	.....	3.35	0	9	20	3	7	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	3	64.6	.....	85	12†	36	20	37	6.76	.....	3.12	0	6	15	12	3	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	49	69.6	+1.5	84	24	48	20	24	3.42	-0.06	2.10	0	8	11	7	12	s.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	4	69.4	.....	85	24†	46	20	27	2.00	.....	1.05	0	7	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	9	65.8	.....	83	1†	36	20	36	1.51	.....	1.10	0	4	22	5	3	nw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	35	64.8	+1.2	85	12†	31	20	43	2.85	-0.84	1.59	0	7	20	3	7	sw.	John E. Benner.
Reading.....	Berks.....	325	50	67.2	+1.6	85	12	41	20	29	3.83	+0.55	1.89	0	6	16	6	8	se.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	9	68.0	.....	88	25	39	20	35	4.12	.....	1.60	0	8	14	12	4	w.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	25	63.9	+0.9	84	24	37	20	31	4.94	+1.75	1.70	0	13	7	16	7	n.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	31	.....	.....	86	26	34	20	.....	4.79	+1.08	2.00	0	6	.....	.....	.....	.....	J. M. Boyer.
Shawmont.....	Philadelphia.....	51	24	68.2	.....	85	1	41	20	29	2.83	-0.50	1.95	0	7	16	11	3	nw.	W. S. Gullies.
State College.....	Center.....	1,217	35	61.4	-1.0	82	26	35	20	31	4.91	+1.86	1.87	0	14	17	11	2	w.	Prof. Wm. Frear.
Towanda.....	Bradford.....	754	25	62.6	+0.6	83	12	34	20	37	5.25	+2.25	1.70	0	12	15	10	5	w.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	55	59.4	-0.3	82	23†	28	20	40	5.31	+2.24	1.50	0	12	24	3	3	sw.	George W. Hill.
West Chester.....	Chester.....	455	87	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. C. Green, D. D. S.
Williamsport.....	Lycoming.....	521	33	65.4	+1.5	87	26	37	20	40	3.94	+0.67	1.60	0	10	19	5	6	se.	Jacob April.
York.....	York.....	400	32	67.0	+1.4	91	26	34	20	40	3.77	+0.42	2.20	0	4	19	7	4	se.	York Water Co.
Ohio Drainage.																				
Beaver Dam††	Beaver.....	700	27	68.1	.....	90	26	45	3	33	2.07	-0.58	0.77	0	8	14	6	10	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	5	61.3 ^a	.....	86	26	32	20	41	3.60	.....	1.44	0	11	14	9	7	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	2	62.4	.....	82	26	33	20	42	2.84	.....	0.94	0	9	18	7	5	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	29	60.0	.....	87	26	30	19†	53	4.53	+1.22	1.45	0	8	21	8	1	.....	John Fawcett.
Clarion.....	Clarion.....	1,500	25	.....	.....	.....	.....	.....	.....	.....	3.27	-0.42	1.08	0	10	24	0	6	w.	N. A. Goble.
Claysville.....	Washington.....	1,150	16	66.6	+1.4	89	21	38	20	45	2.41	-0.51	0.90	0	9	16	9	5	w.	E. T. Buchanan.
Corry.....	Erie.....	1,400	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	23	64.7	-0.7	88	22†	36	20	45	4.28	+1.46	1.04	0	10	15	8	7	w.	Mrs. N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	2	60.8	.....	84	26	30	20	39	4.92	.....	1.18	0	10	17	9	4	w.	

Daily precipitation for September, 1920.

Stations.	Watershed.	Day of month.																															Total.			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Atlantic Drainage.																																				
Allentown|||	Lehigh					1.05				.09							.07											.07		.05	1.90	3.16				
Altouna.	Junata					.63	.14			.72	1.17	.01	.34				.07									.25	.01			.60		1.08	5.02			
Ansonia|||	Pine Creek					.30	.29			.43			.20	.26																.69		.52	2.69			
Arcndtsville.	Potomac				T.	.78				.02	.60		.09				T.									.75			T.	.83		2.43	5.50			
Austin	W. Br. Susq.																																			
Bellefonte.	do.					.56	.31			.60	.26		.15																T.			2.25	4.13			
Bethlehem	Lehigh					.20	.71				.70																						1.98	3.59		
Blosserville	Lower Susq.					2.12		.35																		T.			1.25			1.40	5.1			
Bustleton.	Lower Del.					.02	.18					.64		.05																.26		1.50	2.68			
Carlisle.	Lower Susq.					.96				.06	.16		.06				T.					T.				T.	.12		.03		.52	1.55	3.43			
Catawissa	N. Br. Susq.				14	.33				.48	.42		T.				.02					T.					T.			.52	.23	2.37	4.51			
Center Hall.	Susquehanna									.48				.29			.03													.18	1.25		2.23			
Chambersburg	Potomac																																			
Clearfield	W. Br. Susq.					.30	.40			.45	.90		.22	.19			.08						.08		T.	.20	.41	.08	.92	.04	1.45	5.72				
Coatesville.	Lower Del.					.72	.01				.32		.01														.33	.43		.12		1.62	3.56			
Colebrook.	Lower Susq.																																			
Cresson.	Junata					.48	.07			.75	.96	.02	.18				.03										.12			.14	.62	1.65	5.02			
Doylestown.	Lower Del.					.02	.19				.32		.01									T.								.03	.36		1.46	2.39		
Driftwood.	W. Br. Susq.					*	.07			*	1.04		.02			T.					T.									*	1.02	3.18				
Emporium.	W. Br. Susq.				15	.83				.52	.22		.18										.23		.03	T.	T.		1.00		*	1.02	5.16			
Ephrata.	Lower Susq.																												1.10	.49	.16	1.28				
Everett.	Junata																																			
Freeland|||	Lehigh	.06				.26	1.02				.86	.06					.21					.11				T.	T.		.20	2.54		.70	6.02			
George School.	Lower Del.					.12	.16			.02	.51		.03									.02				T.	T.		.95	.02	.14	T.	1.34	3.57		
Gettysburg	Potomac					1.65				.03	.34		.05													.37	.02	.48		.80	.63	2.00	6.28			
Girardville.	Schuylkill.		12			.92				.41	.12																		T.				4.97			
Gordon	Lower Susq.	.60				.76	.03			.78							.08													2.28	1.83	6.43				
Gouldsboro|||	Lehigh			.03		.05	1.04			.72	.10	.80					.08							.18					.07		.11	1.20	5.49			
Graterford.	Schuylkill.					.02	.08			.43																				.16		.54	1.33			
Hamburg.	Schuylkill.					1.58				.78	.28																			.30	.35	1.72	5.06			
Hanover.	Lower Susq.					.66				.17		.04																	.48		.36	1.76	3.47			
Harrisburg***	do.		24	1.27					.07	.04	.01					T.											.08			1.37	.45	2.00	5.53			
Holtwood|||	Lower Susq.					1.05				.25	.21																		.51		.20	.45	2.67			
Honesdale	Lackawaxen																																			
Huntingdon.	Junata					.81	.17			.34	1.08	.02	.78	.04			.13												.05		.40	.50	1.71	6.03		
Jersey Shore.	W. Br. Susq.					1.05	.24			.22	.51		.03	.01														.13			.14	T.	1.60	3.93		
Karlsruhe|||	do.					.70			.15			.20	.12																		.90		1.60	3.77		
Kennett Square.	Delaware.					.08	1.17		*	1.65		.04																			*	.10	1.36	6.16		
Lancaster.	Lower Susq.					.42	.25			.27																						.24	1.51	2.82		
Lansford|||	Lehigh					1.06				1.05																				1.00	1.05	.63	4.85			
Lawrenceville	N. Br. Susq.					.50		.10		.37		T	1.10			.10						.05									.60	T.	1.30	4.12		
Lebanon	Lower Susq.				1.48	T.				T.	.43																			.29		.28	1.64	4.12		
Lewisburg.	W. Br. Susq.	.02				1.85	.17			.60	.35	T.		.05	.02			.01					.05	.01		.05				.04	.93	.03	2.08	6.26		
Lloyd.	Pine Creek					.72	.15			.49		.31					T.														T.		1.32	2.99		
Lock Haven.	W. Br. Susq.					.72	.15			.25	.50	.03	.06				.05														.01	.15	T.	1.58	4.14	
Lykens.	Susquehanna					1.96	.13			.54																							1.85	7.13		
Mauch Chunk.	Lehigh					2.72				.29	.81						.02													.02	.06	1.06	2.26	7.24		
Media.	Lower Del.					.48				.51																					.20	1.22	2.95			
Mifflintown.	Junata					2.37	.03			.94	.25		.08				.02													.01		.26	1.77	5.74		
Milford.	Upper Del.					3.05				.55		.90	.43																				2.02	6.95		
Montrose.	N. Br. Susq.					1.20				.60		1.30	.10				.23														.15	1.05	2.15	6.78		
Mount Pocono	Upper Del.					.50	1.70				1.00	.40																		.50	.50	1.70	3.00	9.40		
Muncy Valley.	W. Br. Susq.					.95	.12			.16	.88						.10														.34	.67	1.64	4.86		
Narberth.	Lower Del.					.13	.08			.02	.50		.11																		.06	.01	.03	1.67	2.91	
Neshaminy|||	Lower Del.	.29					.15			.43		.03																			.01	3.35	.02	.30	5.30	
Palmerton.	Lehigh			T.	2.18					.68	.43	T																			.03	.32		3.12	6.76	
Philadelphia (a.)	Lower Del.			T.	.13	.01		T	.70		.27																				.10	.01	.10	2.10	3.42	
Philadelphia (d.)|||	do.					.09			.47																						.05	.03		.19	2.00	
Phoenixville.	Schuylkill.					.06				.30																					.05			1.10	1.51	
Pottstown.	do.					.06	.33			.33																					.02		.06	1.57	2.40	
Portville.	do.					1.40				.38	1.19						.04														.03		.13	2.69	7.13	
Quakertown.	Delaware.					.06	.36			.67			.02																		.03	.12		1.59	2.85	
Reading***	Schuylkill.			T.		.80			.26	.39	T.						T.														.19		.30	1.89	3.83	
Renovo|||	W. Br. Susq.					.45	.45	T		.72			.55				.43															.45	.60	3.65		
Sadsburyville	Delaware.					.59				T.	.50		.02																		.47	.77	.02	.15	1.60	4.12
Scranton***	N. Br. Susq.					.64	.03			.28	.61	.16	.43				.08						.01	.06							.01	.57	.36	1.70	4.94	
Sellusgrove.	Susquehanna					.94	.05			.05	.81		.03																				.94	2.00	4.79	
Shawmont.	Schuylkill.					.05	.10			.30		.03																								

Continued on page 72.

Daily temperatures for September, 1920.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Atlantic Drainage.																																	
Altoona.....	Maximum...	76	69	73	72	69	71	73	76	65	72	79	81	73	73	75	78	69	78	70	67	72	76	77	69	83	86	83	83	74	76	63	73.9
	Minimum...	55	44	42	45	48	59	57	52	51	58	60	63	56	49	46	53	44	48	56	36	47	52	49	62	61	61	61	61	61	49	47	52.4
Bethlehem.....	Maximum...	82	74	80	79	79	75	78	79	78	80	88	87	85	82	80	77	77	83	82	72	70	80	83	85	86	84	83	82	83	82	82	80.5
	Minimum...	55	48	45	46	50	59	62	56	51	59	58	62	62	51	51	59	50	50	54	38	50	46	47	50	66	69	66	61	55	58	54.5	
Bustleton.....	Maximum...	76	72	76	79	81	74	78	79	76	79	79	81	85	77	79	77	73	79	69	72	76	76	80	85	85	81	81	80	83	71	78.0	
	Minimum...	60	49	58	49	51	63	63	56	64	53	64	59	64	51	52	52	51	44	53	37	49	47	49	54	68	69	67	64	60	62	56.1	
Carlisle.....	Maximum...	79	72	73	77	72	69	76	78	74	77	81	81	79	75	77	79	72	80	73	68	72	73	74	78	85	85	80	78	78	63	75.9	
	Minimum...	60	50	44	46	49	61	60	53	52	59	59	61	58	49	47	54	48	45	55	36	52	50	49	60	61	64	68	66	51	51	53.9	
Chambersburg.....	Maximum...	77	76	81	81	83	79	76	79	72	80	82	84	74	81	83	81	75	82	80	76	82	85	84	81	85	90	90	81	76	64	80.0	
	Minimum...	53	40	39	44	50	41	56	46	48	58	57	60	51	49	44	51	39	38	37	35	39	48	51	56	61	61	60	61	47	47	48.9	
Emporium.....	Maximum...	69	65	71	72	70	69	70	74	69	74	69	74	75	80	70	71	72	76	68	77	62	63	75	77	77	75	79	81	81	74	72	59.7
	Minimum...	50	40	38	42	45	61	56	49	48	60	54	60	50	46	44	50	38	38	45	33	48	50	52	53	66	60	61	54	46	47	49.5	
Gettysburg.....	Maximum...	80	75	78	81	80	70	80	84	76	82	86	88	78	79	83	85	77	85	74	74	78	80	82	85	90	90	75	85	85	67	80.4	
	Minimum...	57	52	44	45	49	49	58	52	53	59	58	63	58	49	48	54	47	44	55	37	50	47	48	63	63	65	67	65	54	50	53.4	
Gordon.....	Maximum...	77	76	70	72	74	72	74	75	73	73	72	80	78	72	74	78	78	76	67	67	71	70	75	76	84	86	80	74	78	66	74.5	
	Minimum...	59	41	36	38	41	60	61	46	44	60	56	62	56	46	51	52	59	38	49	29	48	44	42	48	62	62	66	64	42	51	50.4	
Harrisburg.....	Maximum...	74	69	72	76	76	67	76	78	74	78	80	83	74	74	76	80	72	78	68	68	72	73	77	79	83	85	76	78	79	65	75.3	
	Minimum...	64	56	52	52	53	62	61	59	55	63	64	66	61	55	54	57	57	52	47	42	55	53	56	62	67	67	69	65	55	52	57.8	
Honesdale.....	Maximum...	86	78	82	82	84	79	79	81	79	81	84	85	87	79	81	83	82	85	79	77	75	78	81	83	84	88	85	84	84	80	81.8	
	Minimum...	59	48	43	45	38	61	61	50	49	60	57	62	57	50	46	46	47	42	47	35	49	44	46	54	66	51	66	64	56	55	51.8	
Lancaster.....	Maximum...	87	73	76	77	78	78	78	80	79	80	82	84	84	78	78	80	81	83	78	71	74	77	82	85	86	89	82	81	83	80	80.1	
	Minimum...	59	51	43	45	46	61	49	54	52	61	58	63	61	50	49	57	53	70	57	36	53	49	50	58	69	65	69	65	54	53	55.3	
Lebanon.....	Maximum...	77	72	78	78	78	71	73	87	71	80	81	87	78	79	80	84	76	83	72	70	74	82	83	80	85	89	85	83	81	76	78.9	
	Minimum...	53	41	38	43	45	58	58	48	50	58	53	60	54	46	45	48	40	39	48	34	48	44	50	51	64	61	62	62	44	45	49.7	
Lock Haven.....	Maximum...	73	71	77	79	79	70	77	79	77	77	83	88	71	76	81	77	72	83	71	73	65	78	82	83	84	84	77	77	81	64	77.0	
	Minimum...	58	46	44	43	47	60	63	52	50	62	61	63	58	51	48	54	51	43	50	35	51	47	47	48	65	67	68	62	52	54	53.3	
Mauch Chunk.....	Maximum...	69	69	62	74	73	67	69	69	69	75	79	85	77	67	75	79	70	70	70	67	67	68	71	73	76	78	77	72	68	68	71.8	
	Minimum...	61	46	41	41	47	64	58	53	61	57	52	60	61	45	46	49	51	41	54	35	52	46	46	57	64	75	62	61	47	49	52.7	
Milford.....	Maximum...	74	73	74	73	74	70	76	74	71	76	77	83	79	78	74	74	81	79	74	73	67	73	78	82	82	81	78	77	68	68	75.8	
	Minimum...	52	42	36	40	43	49	59	47	42	55	56	61	54	49	46	42	39	43	66	30	46	41	41	45	55	60	60	60	40	43	47.8	
Montrose.....	Maximum...	65	65	71	74	72	68	72	71	72	72	75	80	74	70	70	71	64	75	66	64	71	70	76	78	77	79	76	76	74	60	71.6	
	Minimum...	54	48	51	56	58	62	55	55	60	58	62	57	54	50	57	56	50	55	45	45	60	55	58	60	65	65	69	60	56	50	56.4	
Muncy Valley.....	Maximum...	72	68	76	77	81	72	74	78	75	76	78	83	73	74	77	76	71	81	64	71	69	79	84	80	84	88	83	81	83	79	76.9	
	Minimum...	51	41	32	40	44	57	56	45	45	61	50	60	52	43	58	50	39	39	41	32	49	60	52	48	64	57	52	48	44	48	48.6	
Narberth.....	Maximum...	74	73	76	78	79	75	79	79	80	79	80	84	76	77	79	77	72	80	68	71	75	76	81	85	84	82	82	79	83	72	77.8	
	Minimum...	61	52	50	51	52	64	64	56	55	64	61	64	63	53	54	56	49	47	54	39	51	48	51	58	68	69	69	63	62	55	56.8	
Philadelphia.....	Maximum...	76	74	76	77	78	75	80	80	79	80	80	84	77	78	75	79	73	80	69	70	73	74	80	84	83	80	82	79	82	73	77.7	
	Minimum...	66	57	56	60	58	66	67	62	63	67	65	68	63	58	61	62	59	56	57	48	56	56	58	62	69	70	68	67	68	55	61.6	
Reading.....	Maximum...	74	72	76	78	78	69	77	79	79	78	81	85	75	76	78	77	73	81	67	70	73	76	80	83	83	83	77	79	82	68	76.9	
	Minimum...	60	54	50	52	54	64	62	59	55	64	62	69	58	55	54	62	56	54	47	41	55	51	51	59	68	67	70	65	58	52	57.6	
Seranton.....	Maximum...	71	66	73	74	76	65	74	75	77	76	78	82	70	73	76	77	67	76	65	66	65	76	80	84	80	84	83	74	80	60	74.1	
	Minimum...	56	48	43	46	50	60																										



Scale of Shading.

- 0 to 1 inch.
- 1 to 2 inches.
- 2 to 4 inches.
- 4 to 6 inches.
- Over 6 inches.

Nautical Miles
0 100 200 300 400
Kilometers
0 100 200 300 400

NO RAIN

Daily precipitation for September, 1920.—Continued from page 69.

Stations.	Watershed.	Day of month.																														Total.					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31				
Creekside.....	Allegheny.....										.68	.30		.38			.12															.64	2.56				
Davis Isl. Dam|||..	Ohio.....						.10	T.			1.11	T.	1.50	.17			.04									T.		T.	.42		.57		3.61				
Derry.....	Conemaugh.....					.07				.56	1.02	.12	.42												.05			.40	.40	.20	1.04		4.28				
Ebensburg.....	Conemaugh.....					.46	.16			.51	.85	.21	.25				.09								T.	.07	T.		1.18		1.14		4.92				
Edinboro.....	Allegheny.....					.05	.26			.26	.20	T.					.23				T.	.02			.05		.02	.44	.13		.30		1.96				
Elk Lick.....	Youghiogheny.....						T.			.65	.57		.06												T.		T.	.65	.88		.85		3.66				
Falls Creek.....	Allegheny.....					.13	1.48			.10	.53		.06	.68			.04					.10				.26	.03		.62		1.49		5.52				
Franklin|||.....	Allegheny.....					.13	.20			.07	.07		.10				.05								.07				.98		.40		2.07				
Freeport|||.....	Allegheny.....					.42				1.85	.02	.47	.21				.03												.46		.62		4.08				
Greensboro|||.....	Monongahela.....																																				
Greensburg.....	Youghiogheny.....	.44				.20	.03	.06		.20	1.03	.38	.39	T.			.01								.02		.09	.05	.39		1.38		4.67				
Greenville.....	Beaver.....					.22	.22				.20	.18													T.					.07	.43		1.32				
Grove City.....	Youghiogheny.....						.22			.02	.46	T.	.01				.08								.21		.30	.80			.71		2.81				
Herr's Isl. Dam|||..	Ohio.....					.09	T.			T.	1.29	T.	.86	.25			.08								T.	T.		.12	.17		.64		4.67				
Indiana.....	Conemaugh.....					.20	.05			.32	1.03	.35	.19			.29									.20				1.22		1.20		5.05				
Irwin.....	Youghiogheny.....					.18	.07	.03		.02	1.11		1.22				.05										.20	.07	.18		.88		4.01				
Johnstown.....	Conemaugh.....					.14	.44			.33	.93		.15				.10					.01			.08			.40	.28	T.	1.00		3.86				
Ketner.....	Allegheny.....						.13	.03		.18	.21		.48	.17														.28	.86		1.35		4.06				
Linesville|||.....	Beaver.....	T.				.20				1.49	.08						.05					1.01					.21	.02	.05	.42		.05		2.58			
Lock No. 4 |||.....	Monongahela.....	.04				.30				.06	.72	.03	.05	.01			.03								T.		1.05	.70		.62		3.61					
Lyeippus.....	Conemaugh.....					.09				.27	1.75	.22					.03											.14		1.15		1.00		4.65			
Mosgrove|||.....	Allegheny.....					.31				1.67	.07																						3.34				
New Castle.....	Beaver.....					.06	.29			.44	.11						.06										.11				.59		3.36				
North Shenango.....	Beaver.....						.08			2.70	.34																			.32		.18		3.52			
Parkers Landing|||..	Allegheny.....					.15	.05			.48	T.	.05	T.				.10										.05		.02	.40		.38		1.68			
Pennline.....	Beaver.....					.28				1.10	.71						T.											.35	.02	.59			3.05				
Pittsburgh**.....	Ohio.....					.09	T.			1.21	.33	T.	.28				.06								.01			.22	.11		.07	1.10		3.48			
Ridgway.....	do.....					.11				.27	.12		.25														.21		.48	.14		1.33		2.91			
Saegerstown.....	do.....					.02	.01	.02			.33	.03	.10												.22		T.	1.18	.36		.32		2.59				
Saltsburg|||.....	Conemaugh.....					.17	T.			.62	.20	.05	.04				.08										.04		.01	.36		.50		2.07			
Shanksville.....	Conemaugh.....					.50	.11			.13	.78	.05	.02																	1.03		.94		3.56			
Sharon|||.....	Beaver.....					.07				.19	.09																						0.97				
Somerset.....	Youghiogheny.....	.20				.52		.26		.26	1.25		.10				.05										T.		.12	.19	.15		0.97				
Springdale.....	Monongahela.....					.26	.31			1.69	.45	.25	.02				.04													.02	.37		.62				
Summit.....	Beaver.....					.32				.60	.50																			.15	.18		1.75				
Turnerville.....	do.....					.11				.71	.20													.06						.15		.15		1.51			
Uniontown.....	Monongahela.....					.15	.05			.12	1.32	.03	.04				.12								T.	T.		.82	1.20		.88		4.73				
Vandergrift.....	Conemaugh.....					.17	.10	.39		.15	.98	.04	.18				.02											.05		.17	.33		.96				
Warren.....	Allegheny.....					.20	.60	.10		.06	.07		.16				.03						.03							.38		.97		2.63			
Westford.....	Beaver.....							.10		1.27	.23	T.																	.30	.08		.13		2.16			
West Newton||| ..	Youghiogheny.....					.30				.05	.95	.05	.35	.05														.80	.50		.60		3.65				
Lake Drainage.																																					
Erie***.....	Lake Erie.....					.02	.30			.34	T.	T.					.03													.44	.05		.47		1.75		
West Bingham.....	Genesee.....					T.	.31					.60	.08																	.16		1.95		3.10			

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

1.85
UNP

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

UNIVERSITY OF ILLINOIS LIBRARY

DEC 21 1920

CLIMATOLOGICAL DATA

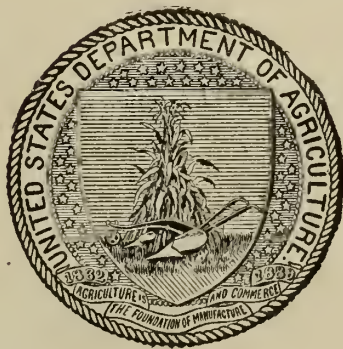
PENNSYLVANIA SECTION

OCTOBER, 1920.

BY

GEORGE S. BLISS

METEOROLOGIST



PHILADELPHIA, PA.
WEATHER BUREAU OFFICE
NOVEMBER 28, 1920.

Departure of the Mean Temperature from the Normal, October, 1920.



Shaded portions show excess (+).
 Unshaded portions show deficiency (-).
 Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

VOL. XXV. PHILADELPHIA, PA., OCTOBER, 1920. No. 10.

GENERAL SUMMARY.

The temperatures were mild during the greater portion of the month, with cool periods culminating on the 7th and 31st. There was no severe freezing except in the northern counties and in portions of the mountain district, and late truck continued to grow and was plentiful throughout the month. There was very little rain until near the close of the month and the top soil became dry. Pastures were good at the beginning of the month, but were generally short before its close. The soil was most too dry for late seeding, but early sown grains rooted deeper to reach moisture and were really benefited thereby. There was less than half of a normal October rainfall at most places, and a large portion occurred at night. Outdoor work of all kinds proceeded almost without hindrance. Corn matured in fine condition and there was very little that was soft or shrunk. Silo filling was finished early in the month and husking was in full swing after the 15th. The corn crop gave little promise in July, but the latter part of the season was so favorable that it proved to be one of the best crops in yield and quality that has been produced in many years. Potato digging continued throughout the month, although most of the crop was dug before the 15th. In yield and quality it was above the average. The weather was ideal for gathering late fall and winter apples. There was some loss due to lack of farm help, but the best part of the crop was saved. The yield was unusually large and the quality of the fruit was generally good. The greater portion of the rainfall occurred from the 26th to the 29th inclusive, with snow flurries over a large part of the State on the latter date. This moisture was highly beneficial for late sown winter grains, and added slightly to the water supply. The streams were at moderate to low stages all the month. There were no high winds or severe storms. On the whole it was an exceptionally pleasant and favorable month.

TEMPERATURE.

The mean temperature for the State, as determined from the records of 72 stations, was 57.5° or 5.2° above the October normal. The temperatures were comparatively uniform, with no sudden or marked changes. The highest temperatures were recorded on various dates, but mostly on the 14th, 15th, 20th, and 21st, while the lowest temperatures generally occurred on the 7th or the 31st. The highest mean was 62.4° at Philadelphia, and the lowest was 53.2° at Brookville. The highest temperature, of 88°, was recorded at three stations, namely, Gettysburg, Milford, and Claysville. The lowest temperature, 22°, was reached at Elk Lick and at Ebensburg.

PRECIPITATION.

The average precipitation, as shown by the records from 125 stations, was 1.67 inches, or 1.79 inches less than the normal for October. The heaviest rainfall was 4.67 inches at Erie, that station being the only one in the State with an excess above the normal. The least rainfall was 0.50 inch at Arendtsville. The greatest amount recorded in any 24 consecutive hours was 2.00 inches at Mount Pocono, on the 1st. The heaviest snowfall was 2.0 inches at Ebensburg, on the 29th. In general the snowfall was recorded as a trace, and with the exception of Ebensburg the only station to report more than an inch was Lycippus, with 1.5 inches.

BAROMETRIC PRESSURE AND WINDS.										
Stations.	In inches, reduced to sea level.					Total move- ment, in miles.	Velocity, in miles per hour.			
	Average.	Highest.	Date.	Lowest.	Date.		Average.	* Highest.	Direction.	Date.
Erie.....	30.10	30.40	6	29.51	27	9,463	12.7	38	sw.	27
Harrisburg.....	30.13	30.37	18	29.50	1	3,808	5.1	28	sw.	27
Philadelphia.....	30.12	30.39	18	29.42	1	6,197	8.3	30	nw.	5
Pittsburgh.....	30.15	30.40	30	29.65	27	6,510	8.8	31	nw.	1
Reading.....	30.12	30.39	18	29.41	1	3,682	4.9	25	n.	25
Scranton.....	30.11	30.38	18	29.39	1	4,392	5.0	26	sw.	4

* For any five-minute period.									
SUNSHINE AND HUMIDITY.									
Stations.	Sunshine.					Humidity.		Fog.	
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Number of days with.		Average per cent.		Number of days with.	
				80 per cent or more.	20 per cent or less.	8 a. m.	8 p. m.	Light fog.	Dense fog.
Erie.....	170.8	343.1	50	8	10	72	71	2	0
Harrisburg.....	265.6	345.2	77	15	2	78	67	6	5
Philadelphia.....	232.7	345.2	67	17	5	81	70	10	2
Pittsburgh.....	239.7	344.1	70	19	5	81	59	13	11
Reading.....	244.0	345.0	71	17	5	77	64	17	5
Scranton.....	.....	.....	.....	12	5	88	71	21	5

COMPARATIVE DATA FOR OCTOBER.									
Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	46.3	74	19	4.02	9.18	2.04	9	6	16
1889.....	47.3	83	13	3.85	8.61	1.88	8	9	14
1890.....	50.9	81	21	5.87	8.41	4.03	6	8	17
1891.....	50.6	81	15	3.06	4.46	0.84	11	9	11
1892.....	50.8	83	16	0.72	2.93	0.00	13	11	7
1893.....	53.0	91	17	3.26	6.58	1.18	14	8	9
1894.....	53.6	88	24	4.26	7.66	0.65	12	8	11
1895.....	47.3	76	17	1.99	4.63	0.45	17	8	6
1896.....	48.9	86	18	3.19	5.70	0.94	11	8	12
1897.....	54.2	95	16	1.32	5.93	T.	14	8	9
1898.....	53.8	92	20	5.20	8.62	2.36	11	7	13
1899.....	54.6	94	15	1.55	3.81	0.53	13	8	10
1900.....	58.6	95	19	2.74	5.10	0.80	11	9	11
1901.....	52.2	83	20	1.23	3.35	0.23	16	10	5
1902.....	53.1	89	19	4.64	8.12	1.65	12	9	10
1903.....	53.4	91	20	4.64	10.53	2.07	12	8	11
1904.....	50.6	91	12	2.87	7.11	1.26	15	8	8
1905.....	53.2	90	16	4.23	7.06	2.18	14	7	10
1906.....	52.0	87	14	4.46	8.39	1.97	7	7	17
1907.....	48.2	87	13	3.16	5.64	1.01	16	8	7
1908.....	54.6	93	19	1.95	5.48	0.08	16	7	8
1909.....	48.4	87	15	2.27	4.60	0.70	13	7	11
1910.....	55.6	91	14	1.91	5.23	0.62	16	8	7
1911.....	52.3	83	18	4.83	9.23	2.59	11	7	13
1912.....	54.2	90	23	2.74	5.27	0.90	15	7	9
1913.....	54.9	88	16	5.44	9.62	3.15	10	6	15
1914.....	56.4	91	11	2.35	4.37	0.89	11	9	11
1915.....	54.2	85	17	2.65	5.33	1.00	15	7	9
1916.....	52.1	92	16	2.25	4.45	0.76	18	7	6
1917.....	47.2	84	12	6.38	9.80	3.33	10	10	11
1918.....	55.5	85	19	3.17	2.20	0.24	15	8	8
1919.....	57.5	92	21	4.77	8.04	2.28	9	8	14
1920.....	57.5	88	22	1.67	4.67	0.50	19	7	5

RIVER CONDITIONS.									
Stations.	Rivers.	Mean stage.		Highest stage.	Date.	Lowest stage.		Date.	Flood stage.
		Mean stage.	Highest stage.			Lowest stage.	Highest stage.		
Port Jervis.....	Delaware.....	8.5	8.9	2	2.2	26	18		
Phillipsburg.....	Delaware.....	3.1	10.6	2	1.3	27	22		
Mauch Chunk.....	Lehigh.....	4.5	6.5	1	4.0	22	15		
Wilkes-Barre.....	Susquehanna.....	5.8	12.4	2	3.1	26	20		
Williamsport.....	Susquehanna.....	1.5	4.2	2-3	0.6	25	20		
Harrisburg.....	Susquehanna.....	4.3	7.0	3	3.5	27	17		
Freeport.....	Allegheny.....	3.3	6.6	2	2.3	25	22		
West Newton.....	Youghiogheny.....	0.6	2.8	2	0.2	16	20		
Greensburg.....	Monongahela.....	7.1	8.9	2	6.6	23	20		
Pittsburgh.....	Ohio.....	6.0	7.0	2	5.0	7	22		
Beaver Dam.....	Ohio.....	8.2	9.8	2	7.8	29	30		

Climatological Data for October, 1920.

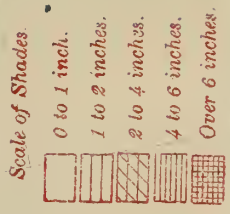
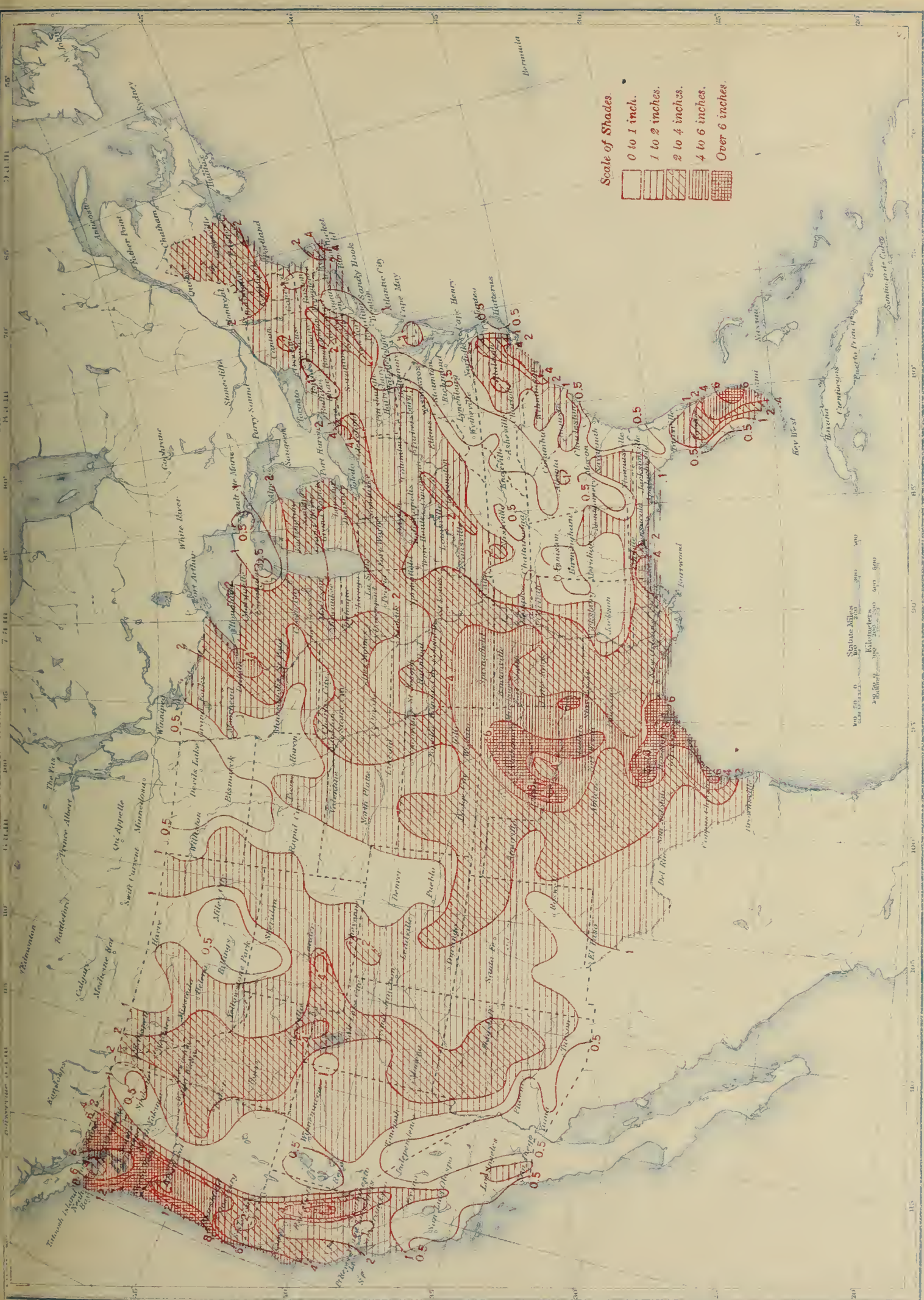
Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation of in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	33	58.1	+6.2	82	21	32	7†	36	1.07	-1.37	0.37	2.0	7	23	5	3	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	36	61.2	+5.7	87	23†	32	3	51	2.05	-1.18	1.49	0	4	13	12	5	w.	Prof. Chas. H. Rominger.
Bustleton.....	Philadelphia.....	125	1	59.2	.....	84	15	31	31	38	1.27	.....	0.62	0	4	19	5	7	.....	Experiment Station.
Carlisle.....	Cumberland.....	467	53	58.0	+5.7	82	15†	32	7	39	0.66	-2.66	0.46	0	4	24	3	4	sw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	23	58.0	+4.4	83	22	32	7	42	1.77	-1.30	1.50	0	5	25	3	3	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	24	56.2	+4.8	82	14	28	7	42	0.63	-2.45	0.24	0	6	19	7	5	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Shirley J. Zarger.
Clearfield.....	Clearfield.....	1,120	10	58.8	+7.0	84	15†	29	7	45	1.06	-2.30	0.50	T.	8	20	7	4	w.	E. W. Hess.
Coatesville.....	Chester.....	380	32	60.2	+5.9	85	14†	32	31	35	0.98	-2.64	0.89	0	3	17	10	4	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	10	57.6	.....	81	15†	32	31	38	0.65	.....	0.46	0	5	24	2	5	n.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	32	54.6	+4.6	78	20†	30	7	42	1.23	-2.06	0.48	0	5	15	10	6	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	366	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacob Eichelberger.
Everett.....	Bedford.....	1,080	22	.....	.....	.....	.....	.....	.....	.....	0.84	-2.01	0.40	T.	3	.....	.....	.....	.....	J. E. Thropp Co.
Freeland.....	Luzerne.....	.....	5	55.8	.....	74	14	30	30	29	3.16	.....	1.63	T.	8	18	7	6	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	13	58.6	+3.7	83	14†	32	30	41	1.75	-1.50	0.77	0	7	22	5	4	w.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	46	60.1	+7.9	88	15	34	7†	41	0.55	-2.67	0.43	0	3	22	7	2	w.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	340	16	54.6	+3.9	80	14†	26	7	44	2.36	-2.03	1.14	T.	6	24	2	5	nw.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	27	.....	.....	.....	.....	.....	.....	.....	3.03	-1.03	0.80	0	5	15	13	3	.....	State Sanatorium.
Hanover.....	York.....	600	16	59.8	+3.7	86	15	28	7	37	0.60	-2.29	0.48	0	2	25	3	3	s.	Miss Olive M. Ryder.
Harrisburg.....	Dauphin.....	361	50	59.8	+5.4	82	14	39	3	30	0.52	-2.51	0.50	0	3	17	8	6	w.	U. S. Weather Bureau.
Honesdale.....	Wayne.....	1,150	18	57.3	.....	83	16†	31	30	48	3.01	.....	1.15	T.	7	.....	.....	.....	.....	Frank X. Stegner.
Huntingdon.....	Huntingdon.....	650	32	58.3	+5.8	84	15	32	7†	44	0.93	-2.07	0.45	0	6	25	4	2	w.	Prof. W. J. Swigart.
Kennett Square.....	Chester.....	340	48	58.9	+4.3	81	15	32	31	31	1.10	-2.34	0.54	0	4	16	11	4	nw.	W. P. Mercer.
Lancaster.....	Lancaster.....	255	32	59.8	+6.4	86	11†	28	31	48	1.00	-2.13	0.38	0	2	22	9	0	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	22	56.5	+6.0	85	15	30	7	44	1.35	-1.48	0.60	0	5	17	8	6	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	79	60.4	+7.2	84	14†	34	7	40	0.69	-2.92	0.69	0	1	25	4	2	w.	S. B. Benzing.
Lewistown.....	Union.....	450	45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	32	57.3	+4.0	84	14†	31	3†	48	1.51	-1.71	0.58	0	8	10	19	2	w.	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	5	57.3	.....	85	15	27	7	45	1.14	.....	0.48	0	7	21	4	6	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	30	58.3	+6.0	85	15	34	30	44	1.14	-2.70	0.41	0	4	20	7	4	w.	R. K. Wintermute.
Media.....	Delaware.....	103	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	North Springfield Water Co.
Mifflintown.....	Juniata.....	445	16	54.2	+1.8	85	22	30	7	36	0.88	-2.43	0.39	0	4	24	0	7	nw.	Wellington Smith.
Milford.....	Pike.....	500	17	54.5	+3.7	88	13	25	30	49	2.42	-1.51	1.60	0	2	18	11	2	w.	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	17	56.4	+7.4	80	21	25	30	36	2.30	-1.25	1.10	0	6	23	5	3	w.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	18	56.2	+8.8	77	22	34	2†	35	4.25	-0.73	2.00	0	5	22	7	2	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	8	56.2	.....	84	14	29	31	43	2.04	.....	0.94	0	4	18	9	4	.....	S. P. Worthington.
Narberth.....	Montgomery.....	300	1	60.0	.....	85	15	34	31	33	1.52	.....	0.54	0	6	20	2	9	sw.	Charles Decker.
Neshaminy Falls††.....	Bucks.....	60	31	58.1	.....	86	15	30	30†	39	2.36	.....	1.65	0	5	24	1	6	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	3	57.3	.....	85	15	31	7	42	1.04	.....	0.83	0	3	17	9	5	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	49	62.4	+5.4	85	15	41	31	27	0.64	-2.57	0.50	0	3	17	7	7	sw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	4	61.3	.....	84	15	39	30	30	1.86	.....	0.47	0	4	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	9	59.4	.....	84	21	33	31	42	1.07	.....	0.51	0	3	15†	9†	3†	sw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	35	56.6	+4.5	83	15†	30	24†	43	1.81	-1.60	1.03	T.	6	22	3	6	nw.	John E. Benner.
Reading.....	Berks.....	325	50	60.3	+6.4	83	15	39	30	34	0.82	-2.68	0.82	0	2	16	7	8	nw.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	9	61.2	.....	84	21	37	30	30	0.82	.....	0.41	0	3	17	9	5	w.	S. A. Clarke.
Seranton.....	Lackawanna.....	805	25	57.5	+5.3	81	21	33	7	35	2.02	-0.95	1.12	0	7	15	11	5	n.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	31	56.8	+4.2	83	16†	31	30	44	1.49	-2.07	0.56	T.	6	2	20	9	se.	J. M. Boyer.
Shawmont.....	Philadelphia.....	51	24	60.3	.....	81	15†	36	31	33	0.64	-2.85	0.50	0	3	23	2	6	sw.	W. S. Guiles.
State College.....	Center.....	1,217	35	56.2	+5.2	79	21†	28	7	37	0.87	-2.03	0.64	T.	4	20	8	3	w.	Prof. Wm. Frear.
Towanda.....	Bradford.....	754	25	56.2	+5.4	82	21	31	7	41	1.32	-1.74	0.42	T.	11	18	6	7	nw.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	55	54.0	+4.9	80	13†	30	8	46	1.23	-1.91	0.40	T.	8	22	6	3	sw.	George W. Hill.
West Chester.....	Chester.....	455	87	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacob April.
Williamsport.....	Lycoming.....	521	33	58.0	+5.4	82	14	34	7	40	1.34	-2.06	0.52	0	5	24	1	6	se.	York Water Co.
York.....	York.....	400	32	58.4	+4.8	85	14†	29	31	42	0.51	-2.42	0.45	0	2	23	4	4	n	.....
Ohio Drainage.																				
Beaver Dam††.....	Beaver.....	700	27	59.5	.....	86	21	29	7	39	1.90	-0.51	0.71	T.	6	22	3	6	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	5	56.1 ^b	.....	80	15†	29	7	44	1.55	.....	0.56	T.	10	17	4	10	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	2	54.1	.....	82	21	25	31	41	2.26	.....	0.89	T.	8	22	4	5	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	29	53.2 ^a	.....	82	20	25	7	46	1.55	-1.35	0.70	0	4	21	5	5	.....	John Fawcett.
Clarion.....	Clarion.....	1,500	25	.....	.....	.....	.....	.....	.....	.....	2.13	-1.57	1.07	0	5	.....	.....	.....	.....	N. A. Goble.
Claysville.....	Washington.....	1,150	16	58.3	+4.6	88	16	27	7	45	1.95	-1.22	1.05	0.2	6	23	2	6	w.	E. T. Buchanan.
Corry.....	Erie.....	1,400	7	55.4	.....	80	15	26	7	44	3.06	.....	0.71	T.	11	14	10	7	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	23	56.6	+2.2	84	15†	26	7	45	1.15	-2.06	0.53	T.	4	22	5	4	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	2	52.1	.....	78	12†	22	7	42	1.33	.....	0.38	T.	7	22	6	3	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	3	53</																

Daily Precipitation for October, 1920.

Continued on page 80.

Daily Temperatures for October, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.		
Atlantic Drainage.																																		
Altoona.....	Maximum...	49	59	72	75	60	58	48	76	75	74	80	74	79	80	81	75	72	72	78	81	82	80	73	72	74	72	72	60	44	49	60	69.5	
	Minimum...	41	40	37	49	43	34	32	40	45	48	47	57	51	56	54	50	49	45	53	53	56	57	56	43	51	55	59	44	34	32	38	46.7	
Bethlehem.....	Maximum...	73	64	72	78	77	65	74	81	84	82	79	79	74	85	86	85	81	73	68	77	86	86	87	71	79	79	73	58	54	67	76.3		
	Minimum...	48	40	32	48	48	39	35	40	43	47	43	49	47	50	51	46	52	50	56	47	54	61	46	36	44	54	61	53	39	33	38	46.1	
Bustleton.....	Maximum...	64	64	70	76	77	76	68	74	80	78	77	72	72	83	84	83	72	63	68	75	78	83	74	70	73	78	74	71	53	54	67	72.6	
	Minimum...	49	41	37	45	51	38	38	42	47	47	41	47	45	49	50	46	56	47	54	54	48	59	41	37	44	52	61	50	41	32	31	45.8	
Carlisle.....	Maximum...	60	63	68	76	65	57	65	73	79	75	78	77	74	81	82	79	72	64	72	76	78	82	75	70	67	75	75	71	50	52	64	70.8	
	Minimum...	45	35	35	45	43	41	32	35	40	46	42	50	52	50	50	44	48	45	58	48	50	55	49	39	46	53	60	50	40	36	36	45.1	
Chambersburg.....	Maximum...	54	61	74	76	66	68	72	79	79	72	80	80	80	84	76	71	78	78	84	81	83	82	80	78	82	72	67	66	57	60	74.2		
	Minimum...	42	47	32	46	36	53	29	34	36	38	37	52	47	42	42	41	45	44	48	47	47	46	49	50	55	57	58	45	35	36	30	43.4	
Emporium.....	Maximum...	52	58	67	72	55	55	64	72	73	73	75	70	66	77	76	70	67	73	76	78	78	78	72	75	70	73	67	63	46	49	59	68.0	
	Minimum...	43	40	32	43	36	33	30	33	34	38	34	50	48	44	41	41	43	45	53	43	48	46	45	33	49	55	60	40	35	35	31	41.3	
Gettysburg.....	Maximum...	62	74	74	83	67	58	67	75	82	80	80	83	77	87	86	75	65	78	82	81	86	77	73	71	80	72	69	52	58	70	24.6		
	Minimum...	45	40	36	46	45	37	34	35	44	48	44	50	50	50	47	46	49	47	59	50	51	56	52	36	45	51	59	52	37	34	39	45.6	
Gordon.....	Maximum...	57	59	65	75	66	53	63	73	76	72	75	71	73	80	80	76	76	60	71	77	77	78	72	65	70	73	69	64	52	52	62	68.8	
	Minimum...	46	32	30	42	30	39	26	29	34	38	34	50	47	42	40	41	41	42	57	46	43	46	38	34	43	50	62	48	38	30	36	40.5	
Harrisburg.....	Maximum...	57	62	68	76	61	56	62	72	77	76	76	76	72	82	82	78	71	63	72	78	78	82	69	68	67	76	73	61	49	53	65	69.6	
	Minimum...	48	43	39	53	49	45	42	50	53	48	56	54	54	54	51	56	50	60	54	56	60	51	46	51	56	61	45	42	40	41	50.0		
Honesdale.....	Maximum...	53	60	68	76	76	57	57	73	80	80	75	75	71	79	81	83	83	83	76	81	82	82	79	77	77	74	76	62	58	62	73.5		
	Minimum...	47	38	33	46	40	38	33	33	36	39	35	47	43	44	40	42	47	45	52	47	46	49	34	32	39	50	48	50	37	31	32	41.1	
Lancaster.....	Maximum...	63	66	73	81	78	62	69	78	85	81	86	79	77	84	86	84	85	78	73	80	83	84	82	70	74	78	76	73	59	56	68	75.8	
	Minimum...	47	42	33	43	41	37	31	34	39	46	38	44	49	46	42	44	45	45	57	60	62	48	40	33	41	53	63	53	36	37	28	43.8	
Lebanon.....	Maximum...	61	66	71	79	78	62	68	78	83	76	79	78	74	84	76	82	78	66	73	80	84	84	78	72	72	82	70	70	54	60	66	73.7	
	Minimum...	48	40	35	46	44	40	34	39	43	54	42	60	63	49	49	42	46	55	58	50	51	57	46	39	45	55	63	51	39	37	39	47.1	
Lock Haven.....	Maximum...	58	61	71	79	65	63	70	81	84	78	78	79	73	83	85	83	75	61	70	81	84	23	73	71	73	78	69	44	37	32	35	41.4	
	Minimum...	41	36	31	42	38	38	31	32	35	39	38	50	47	45	42	42	43	44	50	44	47	49	40	33	46	53	59	44	37	32	35	41.4	
Mauch Chunk.....	Maximum...	57	63	70	78	65	63	70	81	84	78	78	79	73	83	85	83	75	61	70	81	84	23	73	71	73	78	69	44	37	32	35	41.4	
	Minimum...	48	38	35	43	41	36	37	41	41	40	49	48	47	44	44	49	48	45	57	48	51	53	41	34	41	56	62	50	39	34	40	44.3	
Mifflintown.....	Maximum...	52	55	60	69	68	53	63	63	61	56	64	85	72	80	72	70	72	62	72	64	73	85	74	70	63	69	69	64	48	52	69	65.5	
	Minimum...	47	35	32	43	40	49	30	33	38	41	37	50	47	44	42	42	42	42	45	54	46	48	49	45	34	44	46	41	46	42	37	44	43.0
Milford.....	Maximum...	61	62	62	77	61	60	68	75	79	74	72	60	58	77	76	79	74	64	71	73	83	79	70	68	70	71	69	65	68	54	66	70.3	
	Minimum...	43	32	30	42	37	36	29	32	37	36	33	44	39	40	49	40	45	47	50	41	44	41	30	28	37	49	52	49	35	25	28	38.7	
Montrose.....	Maximum...	50	54	64	71	57	55	62	74	78	70	72	70	72	74	79	75	65	64	70	69	80	75	70	67	70	70	68	64	50	48	62	66.7	
	Minimum...	45	48	45	50	46	44	34	40	45	50	44	50	51	55	50	52	51	52	51	47	50	52	34	37	55	60	57	52	28	25	28	46.1	
Muncy Valley.....	Maximum...	55	65	66	76	65	58	70	78	78	74	75	75	78	84	81	79	77	71	74	77	81	82	78	62	66	68	67	64	51	59	65	70.9	
	Minimum...	44	39	32	41	35	31	30	35	37	40	36	50	41	45	43	44	47	44	47	44	47	44	38	34	46	54	63	48	38	31	29	41.6	
Narberth.....	Maximum...	61	63	71	77	62	61	67	74	80	78	77	74	73	82	85	83	73	63	68	75	79	82	69	73	78	74	68	53	54	67	71.4		
	Minimum...	49	39	41	47	49	40	40	45	51	54	45	49	48	51	58	52	56	50	58	55	53	42	47	39	48	54	62	52	40	36	34	48.5	
Philadelphia.....	Maximum...	61	65	69	78	64	61	66	73	80	74	75	75	72	83	85	81	70	64	68	73	76	83	66	69	74	78	75	69	53	55	67	71.2	
	Minimum...	50	47	49	53	48	45	46	51	58	54	58	54	54	56	53	57	60	56	60	59	57	64	53	49	54	58	64	53	43	42	41	53.6	
Reading.....	Maximum...	59	63	70	77	60	60	67	76																									



Scale of Miles
0 10 20 30 40 50
Scale of Kilometers
0 10 20 30 40 50

Daily Precipitation for October, 1920.—Continued from page 77.

Stations.	Watershed.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Creekside.....	Allegheny.....	.60	.40																											.24			1.72				
Davis Isl. Dam|||..	Ohio.....	.46	.05																								.23	.65	.16	.28	T.		1.83				
Derry.....	Conemaugh.....	.32																								.05	.35	.16	.23				1.15				
Ebensburg.....	Conemaugh.....	.38	.12			.04																				.10	.15	.45	.15	.55	.74		1.33				
Edinboro.....	Allegheny.....	1.20	.10	T.								.19					.04									T.	.10	.15	.45	.15	.55	.74	3.67				
Elk Lick.....	Youghiogheny.....	.13																									.32	.25	.08				0.78				
Falls Creek.....	Allegheny.....	.28	.02									.03					T.										.07	.68		.15	.07		1.30				
Franklin|||..	Allegheny.....	.94	.20																								.10	.40	.20	.49	.15		2.48				
Freeport|||..	Allegheny.....	.08	.09																									.10	.76	.21	.26	.06		2.37			
Greensboro|||..	Monongahela.....	.46				T.																					.06	.22	.16	.08	T.		0.98				
Greensburg.....	Youghiogheny.....	.72	.03																							.05	T.	.50	.01	.29			1.60				
Greenville.....	Beaver.....	.62	.04	T.																								.10	.72	.08	.55		2.11				
Grove City.....	Youghiogheny.....	.45															.02			T.							.02	.06	.44	.10	.40	.05	1.54				
Herr's Isl. Dam|||..	Ohio.....	.61	T.																								.07	.62	.21	.38	T.		1.89				
Indiana.....	Conemaugh.....		.70																										.74				1.44				
Irwin.....	Youghiogheny.....	.70	T.																							.09	.04	.60	T.	.25			1.68				
Johnstown.....	Conemaugh.....	.15	.02		T.																						.02		.40	.01	.27		0.87				
Ketner.....	Allegheny.....	.20										.30					.04											.04	.05	.65	.10	.28	.04	1.70			
Linesville|||..	Beaver.....	.87	.34		.02							.18																T.	.17	.53	.07	.64	.24	3.06			
Lock No. 4|||..	Monongahela.....	.66	.07																									.09	.53	.20	.15		1.70				
Lycippus.....	Conemaugh.....	.67																											.71	T.	.28		1.66				
Mosgrove|||..	Allegheny.....	1.24	.07																										.14	.41	.54	.17	2.57				
New Castle|||..	Beaver.....	.15																							.02	.13	.65	.04	.43	.05			1.47				
North Shenango|||..	Beaver.....	.92	.28																									.38	.56	.23	.52		2.79				
Parkers Landing|||..	Allegheny.....	.92	.15										T.								T.							T.	.50	.12	.25	.10	2.04				
Pennline|||..	Beaver.....	1.19	.57		.01							.13					T.											.17	.47	.09	.70	.23	3.56				
Pittsburgh***	Ohio.....	.19											T.															.09	.13	.67	.16	.24		1.48			
Ridgway.....	do.....	.22										.42																			.29		1.65				
Saegertown.....	do.....	1.06	.05		.02							.30															.10	.13	.45	.14	.59	.26	3.10				
Saltsburg|||..	Conemaugh.....	1.11	.05																									.11	.32	.33	.36	.10	2.38				
Shanksville.....	Conemaugh.....																																				
Sharon|||..	Beaver.....	.61	.34																									.37	.29	.06	.22	.05	1.94				
Somerset.....	Youghiogheny.....	.90																											.80		.10		1.80				
Springdale.....	Monongahela.....	.97	.03																									T.	.12	.94	.21	.36	.02	2.65			
Summit|||..	Beaver.....	1.10	.55									.25																	.20	.58		1.04		3.72			
Turnerville|||..	do.....	.90	.20																									.20	.55	.15	.36	.05	2.31				
Uniontown.....	Monongahela.....	.40			T.																							.06	T.	.30	.14	.22		1.12			
Vandergrift.....	Conemaugh.....	.86																											.06	.08	.94		.37	2.31			
Warren.....	Allegheny.....	.08										.30																	.06	.08	.94		.37	2.31			
Westford|||..	Beaver.....	.94	.35																										.22	.52	.62	.05		1.26			
West Newton|||..	Youghiogheny.....	.40																											.22	.52	.62	.05		2.70			
																													.07	.29	.34	.16	.06	1.32			
Lake Drainage.																																					
Erie***	Lake Erie.....	1.58		T.								.45					T.											.10	.53	.36	1.46	.19		4.67			
West Bingham.....	Genesee.....	.25		T.								.17					.04												T.	.25	.45	.13		1.29			

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement. T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

UNIVERSITY OF ILLINOIS LIBRARY

FEB 8 1921

CLIMATOLOGICAL DATA

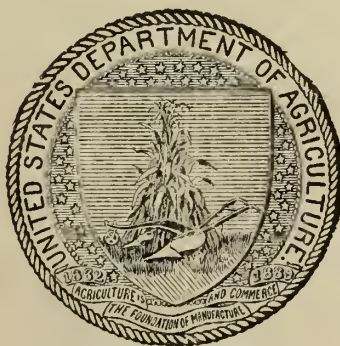
PENNSYLVANIA SECTION

NOVEMBER, 1920.

BY

GEORGE S. BLISS

METEOROLOGIST



PHILADELPHIA, PA.
WEATHER BUREAU OFFICE
DECEMBER 21, 1920.

Departure of the Mean Temperature from the Normal, November, 1920.



Shaded portions show excess (+)
Unshaded portions show deficiency (-)
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

VOL. XXV. PHILADELPHIA, PA., NOVEMBER, 1920. No. 11.

GENERAL SUMMARY.

The first half of the month was unusually pleasant and was followed by much cloudy and rainy weather beginning with the 15th. There was a steady, but moderate, temperature excess during the first ten days, followed by a short cold period from the 11th to the 16th inclusive, and then by moderate temperatures to the end of the month. The first general freezing in the southeastern counties occurred on the 12th, when late vegetables and all but the hardiest of grasses were killed. Until that time the pastures had held up well in the central and southern counties, while in the extreme southeast there was still considerable feed at the close of the month, and stock was turned out to graze whenever the weather would permit. As a result, stock was in excellent condition. Farm work of all kinds made good progress during the first half of the month. Corn husking and cribbing were more than half finished, but during the rainy weather that followed much of the corn was too wet to crib. The rains caught a large amount of corn fodder in the fields and kept it so wet that it could not be hauled in except as it was needed for feed. There was some loss in consequence. The light rainfall of October and the first half of November allowed the top soil to become moderately dry, and in consequence the winter grains rooted deeply. The rains that followed were just right to put them in excellent condition for the winter. The streams were at low to moderate stages during the first three weeks, after which they were slightly above the normal. The water supply was getting low in some places before the heavier rains set in. However at the end of the month the conditions were favorable in all respects, and November ended an unusually favorable autumn season.

TEMPERATURE.

The mean temperature for the State, as indicated by the records from 75 stations was 40.3°, or 0.5° below the November normal. The slight deficiency accumulated from the 11th to the 16th inclusive. The highest temperatures were recorded generally on the 1st or 2d, but a few places were warmer on the 9th. The lowest temperatures occurred on the 13th and 14th. The highest temperature recorded was 75° at Gettysburg on the 1st, and the lowest was 5° at Bradford and at Saegerstown on the 14th. The highest monthly mean was 46.0° at Philadelphia, and the lowest was 29.6° at West Bingham.

PRECIPITATION.

The average precipitation for the State, as taken from the records of 120 stations, was 3.54 inches, or 1.01 inches more than the November normal. About one half of this amount fell during a heavy storm that prevailed on the 16th and 17th. During that storm there was heavy snow and sleet in the mountain districts and in the northwestern counties. The snowfall averaged 4.5 inches, which was the heaviest for November since 1910, when there was an average of 8.5 inches. The heaviest snows were in Erie and Crawford counties in the far northwest, and in Somerset and Cambria counties in the southern mountain district. One station in Erie county reported 21.7 inches. The greatest monthly precipitation was 6.42 inches at Waterville, and the least was 1.85 inches at New Castle, both places being in the western part of the State. There was apparently an excess of precipitation at every station except New Castle, with the greatest departures generally in the central counties.

BAROMETRIC PRESSURE AND WINDS.										
Stations.	In inches, reduced to sea level.					Total move- ment, in miles.	Velocity, in miles per hour.			
	Average.	Highest.	Date.	Lowest.	Date.		Average.	*Highest.	Direction.	Date.
Erie.....	30.11	30.55	29	29.51	2	10,187	14.1	41	se.	22
Harrisburg.....	30.15	30.62	29	29.32	17	4,490	6.2	31	sw.	17
Philadelphia.....	30.15	30.46	29	29.20	17	7,526	10.5	46	ne.	16
Pittsburgh.....	30.15	30.55	4	29.58	17	8,449	11.7	38	w.	17
Reading.....	30.14	30.63	29	29.34	17	4,742	6.6	40	e.	22
Scranton.....	30.13	30.62	29	29.32	17	5,289	7.3	35	sw.	17

* For any five-minute period.

SUNSHINE AND HUMIDITY.

Stations.	Sunshine.					Humidity.		Fog.	
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Number of days with.		Average per cent.		Number of days with.	
				80 per cent or more.	20 per cent or less.	8 a. m.	8 p. m.	Light fog.	Dense fog.
Erie.....	40.8	294.9	14	2	25	79	71	1	
Harrisburg.....	119.5	299.4	40	7	14	75	73	1	2
Philadelphia.....	119.7	299.4	40	9	15	79	73	7	0
Pittsburgh.....	106.7	297.0	36	7	15	79	71	3	2
Reading.....	101.0	299.0	34	6	17	77	73	12	0
Scranton.....						89	79	.....	0

COMPARATIVE DATA FOR NOVEMBER.									
Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	42.2	79	4	3.37	6.22	1.99	9	7	14
1889.....	41.8	73	10	6.72	10.16	2.72	5	8	17
1890.....	41.8	78	10	1.49	4.29	0.78	9	10	11
1891.....	39.7	76	6	2.65	5.70	1.09	9	8	13
1892.....	39.0	80	10	4.34	7.08	1.61	6	8	16
1893.....	39.2	68	4	2.93	5.69	1.16	8	11	11
1894.....	38.2	74	6	2.50	3.64	0.74	10	9	12
1895.....	42.9	73	6	2.48	5.73	0.97	10	8	11
1896.....	46.0	83	12	3.55	8.05	0.82	8	9	13
1897.....	41.6	76	2	5.28	7.04	2.37	6	8	16
1898.....	40.0	73	2	4.08	7.34	1.44	8	9	13
1899.....	41.5	72	8	2.66	4.86	0.61	10	8	12
1900.....	43.5	79	7	4.10	6.92	1.67	6	9	15
1901.....	36.0	76	7	2.56	5.00	1.23	7	8	15
1902.....	47.3	78	9	1.53	3.02	0.50	10	8	12
1903.....	36.9	78	0	2.18	5.33	0.88	11	8	11
1904.....	38.8	79	4	1.14	3.31	0.14	10	9	11
1905.....	39.1	68	5	2.47	3.72	1.08	11	8	11
1906.....	41.5	80	9	1.48	3.08	0.54	12	6	12
1907.....	39.8	70	4	3.60	7.52	1.05	13	8	9
1908.....	41.2	75	2	0.90	1.97	0.20	12	8	10
1909.....	46.4	80	15	1.40	3.97	0.26	12	8	19
1910.....	36.8	68	9	2.45	5.63	0.33	4	7	10
1911.....	37.8	77	7	2.84	5.68	0.99	7	7	16
1912.....	43.0	81	7	2.17	4.83	0.61	10	8	12
1913.....	43.9	79	10	3.05	6.34	1.43	10	5	15
1914.....	40.6	81	2	1.76	4.27	0.57	12	9	9
1915.....	42.1	79	13	2.28	5.32	0.22	10	9	11
1916.....	41.3	79	4	2.27	7.97	0.88	13	6	11
1917.....	37.6	69	5	0.63	1.37	0.12	14	7	9
1918.....	42.1	76	11	2.03	4.07	0.44	12	6	12
1919.....	41.2	76	11	5.35	8.45	1.84	11	7	12
1920.....	40.3	75	5	3.54	6.42	1.85	7	7	16

RIVER CONDITIONS.							
Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	4.6	8.5	24	3.1	15-16	18
Phillipsburg.....	Delaware.....	3.9	8.4	24	2.0	15-16	22
Mauch Chunk.....	Lehigh.....	4.6	5.3	17	4.3		15
Wilkes-Barre.....	Susquehanna.....	6.1	12.1	25	3.7	16	20
Williamsport.....	Susquehanna.....	3.2	8.3	25	0.9	1-2	20
Harrisburg.....	Susquehanna.....	5.0	8.1	26	3.8	14	17
Freeport.....	Allegheny.....	5.8	12.1	24	3.1	16	22
West Newton.....	Youghiogheny.....	1.4	3.8	26	0.3	15	20
Greensboro.....	Monongahela.....	9.1	11.3	23	7.6		20
Pittsburgh.....	Ohio.....	6.5	9.8	24	4.4	30	22
Beaver Dam.....	Ohio.....	9.6	15.2	24	7.7	8	30

Climatological Data for November, 1920.

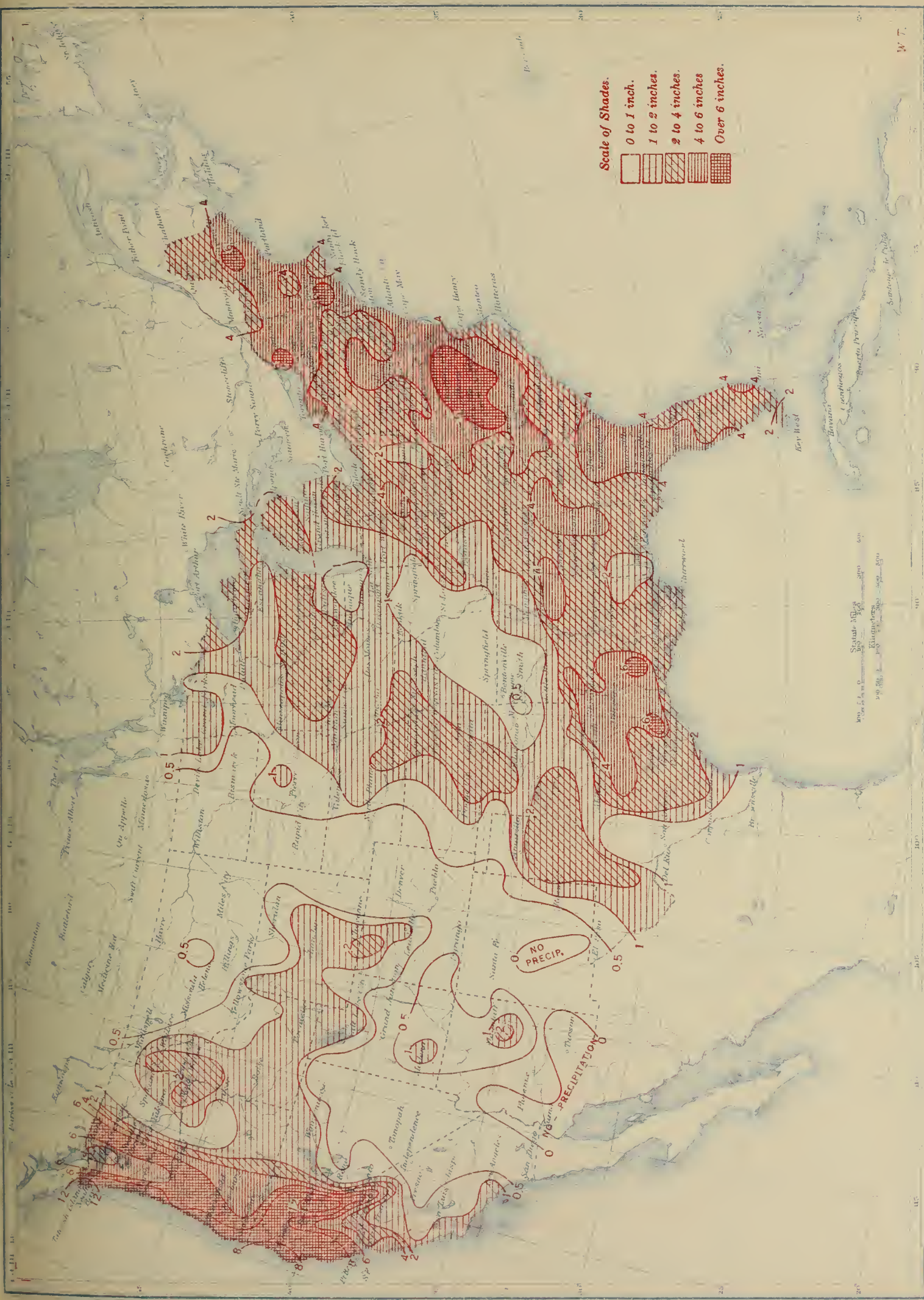
Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 0.1 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	33	39.8	-0.6	68	1	17	13 [†]	29	4.11	+2.30	1.42	10.0	15	8	5	17	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	36	42.6	-1.4	68	1 [†]	21	13 [†]	25	3.48	+0.43	1.18	1.5	7	2	12	16	nw.	Prof. Chas H. Rominger.
Bustleton.....	Philadelphia.....	125	1	43.0	.....	68	1	20	14	30	3.33	.....	1.55	0	9	6	4	20	n.	Experiment Station.
Carlisle.....	Cumberland.....	467	53	41.4	+0.7	66	1	15	14	31	5.06	+1.98	2.74	1.0	9	9	2	19	ne.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	23	40.8	-1.6	63	5	14	14	30	4.56	+2.00	1.05	T.	13	7	4	19	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	24	39.2	-0.7	66	1	15	14 [†]	25	2.33	+0.32	0.86	2.5	9	12	7	11	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Shirley J. Zarger.
Clearfield.....	Clearfield.....	1,120	10	40.0	-0.6	70	9	11	14	35	5.12	+3.25	1.05	8.0	16	5	13	12	nw.	E. W. Hess.
Coatesville.....	Chester.....	380	32	41.8	-1.1	67	1 [†]	14	14	30	3.42	+0.27	1.07	0.4	11	6	6	18	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	10	41.2	.....	68	1	14	14	30	3.41	.....	2.01	0.6	15	8	1	21	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	32	37.9	-1.3	61	1	7	14	25	3.52	+0.86	1.55	4.3	11	4	9	17	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	366	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacob Eichelberger.
Everett.....	Bedford.....	1,080	22	42.2	+1.8	64	1	11	14	32	3.90	+2.13	1.36	4.0	9	11	7	12	ne.	J. E. Thropp Co.
Freeland.....	Luzerne.....	.....	5	34.6	.....	57	2	10	13	20	4.96	.....	1.24	5.2	15	5	7	18	sw.	Theo. Reichmann.
George School.....	Bucks.....	190	13	42.2	-0.4	68	1	18	14	30	3.52	+0.96	1.55	0	10	7	3	20	nw.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	46	42.8	+1.5	75	1	14	14	33	4.17	+1.59	1.90	0.8	10	8	6	16	nw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	16	37.7	-1.3	63	1	9	14	29	4.85	+2.33	2.10	1.0	14	8	1	21	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	27	37.6	-4.6	65	1	15	12	28	5.31	+2.61	0.90	T.	11	8	9	13	ne.	State Sanatorium.
Hanover.....	York.....	600	16	43.4	-0.8	69	1	16	14	29	3.62	+1.97	1.48	0.8	13	11	2	17	w.	Miss Olive M. Ryder.
Harrisburg.....	Dauphin.....	361	50	43.1	+0.1	68	1	23	4	22	3.27	+1.07	1.68	T.	10	4	7	19	w.	U. S. Weather Bureau.
Honesdale.....	Wayne.....	1,150	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Frank X. Stegner.
Huntingdon.....	Huntingdon.....	650	32	42.2 ^b	+0.7	70	1	11	14	33 ^b	4.45	+2.31	1.61	2.0	12	7	6	17	w.	Prof. W. J. Swigart.
Kennett Square.....	Chester.....	340	48	42.6	-0.6	67	2	18	14	27	3.61	+0.28	1.71	0	12	7	7	16	nw.	W. P. Mercer.
Lancaster.....	Lancaster.....	255	32	43.1	0.0	67	1	13	14	35	2.97	+0.63	1.30	1.0	11	12	3	15	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	22	38.8	+0.1	60	9	15	13 [†]	30	2.51	+0.39	1.10	4.0	6	6	8	16	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	79	43.2	+1.0	70	1	19	14	31	3.11	+0.28	1.26	0.1	10	9	7	14	w.	S. B. Benzing.
Lewistown.....	Union.....	450	45	.....	.....	67	1	.....	.....	.....	3.44	+0.99	1.22	0	11	17	8	5	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	32	43.3	-2.0	66	1	12	14	31	3.83	+1.50	1.57	1.0	14	2	13	15	w.	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	5	41.0	.....	69	1	10	14	39	4.93	.....	1.40	0.9	13	7	6	17	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	30	40.0	-0.6	65	1	14	14	30	3.92	+0.68	1.23	0.8	11	10	4	16	w.	R. K. Wintermute.
Media.....	Delaware.....	103	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	North Springfield Water Co.
Mifflintown.....	Juniata.....	445	16	41.2	+0.6	68	5	13	14	42	3.93	+2.34	1.61	1.5	12	6	1	23	nw.	Wellington Smith.
Milford.....	Pike.....	500	17	36.8	-1.4	63	1	10	14	36	2.59	+0.17	1.10	3.0	6	11	12	7	w.	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	17	35.7	-1.2	58	1	14	14	26	2.89	+0.72	1.12	2.0	7	5	6	19	s.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	18	36.3	+0.5	60	2	10	14	30	4.61	+2.07	1.50	1.0	11	10	3	17	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	8	39.8	.....	66	1	12	14	31	3.90	.....	1.23	T.	7	7	6	17	.....	S. P. Worthington.
Narberth.....	Montgomery.....	300	1	43.0	.....	68	1 [†]	21	13	28	4.33	.....	2.29	T.	15	7	6	17	nw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	31	42.2	.....	69	1	17	14	33	3.57	.....	1.88	0	10	11	2	17	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	3	40.2	.....	66	1	16	14	26	3.09	.....	1.05	1.0	12	8	3	19	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	49	46.0	+0.6	70	2	27	13	21	4.05	+0.82	2.20	0	10	6	5	19	nw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	4	44.9	.....	70	2	24	13	25	4.03	.....	2.05	0	8	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	9	42.8	.....	70	1 [†]	19	14	38	3.88	.....	1.67	T.	5	13	10	7	nw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	35	40.2	-0.8	66	1	14	14	28	4.35	+1.27	1.32	0.9	15	4	6	20	nw.	John E. Beumer.
Reading.....	Berks.....	325	50	43.4	+0.7	67	1	24	14	22	3.13	+0.31	1.94	0.8	11	4	5	21	nw.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	9	43.2	.....	67	1	21	14	21	3.18	.....	1.15	0.4	10	8	5	17	w.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	25	40.2	-0.4	50	1	21	13	23	2.97	+0.67	0.86	3.8	14	2	7	21	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	31	41.4	-0.1	67	1	14	14	35	5.69	+3.16	2.10	3.0	12	1	10	19	nw.	J. M. Boyer.
Shawmont.....	Philadelphia.....	51	24	44.0	.....	69	2	20	14	25	3.49	+0.70	1.60	0	6	8	3	19	nw.	W. S. Guiles.
State College.....	Center.....	1,217	35	39.2	-0.5	65	1	17	14	22	4.32	+2.13	1.12	2.8	12	6	8	16	w.	Prof. Wm. Frear.
Towanda.....	Bradford.....	754	25	38.4	-0.9	56	1 [†]	15	14	30	2.92	+1.02	1.24	6.2	10	2	6	22	nw.	Hiram E. Bull. C. E.
Wellsboro.....	Tioga.....	1,419	55	35.4	-2.1	55	9	11	14 [†]	29	2.69	+0.14	1.10	2.8	11	9	5	16	w.	George W. Hill.
West Chester.....	Chester.....	455	87	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Williamsport.....	Lycoming.....	521	33	41.3	+0.5	65	1	16	14	28	4.63	+1.74	1.92	0.7	16	5	7	18	se.	Jacob April.
York.....	York.....	400	32	42.4	-0.1	73	1	13	14	37	2.70	+0.20	1.30	T.	11	8	3	19	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	27	43.0	.....	69	3	14	14	31	2.44	+0.15	1.54	5.9	12	10	6	14	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	5	37.4	.....	58	1	5	14	32	3.31	.....	1.31	9.2	16	4	12	14	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	2	36.2	.....	62	1	6	14	31	2.93	.....	0.90	4.3	10	7	6	17	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	29	36.2 ^a	.....	65	1	6	14	31	3.31	+0.49	0.84	3.0	9	13 ^a	8 ^a	.....	.....	John Fawcett.
Clarion.....	Clarion.....	1,500	25	.....	.....	.....	.....	.....	.....	.....	4.23	+1.43	1.38	.....	12	.....	.....	.....	.....	N. A. Goble.
Claysville.....	Washington.....	1,150	16	40.8	-0.7	68	1	9	14	30	2.05	+0.32	0.90	7.5	12	7	9	14	w.	E. T. Buchanan.
Corry.....	Erie.....	1,400	7	37.2	.....	60	9	9	14	27	4.58	.....	1.70	8.2	16	8	10	12	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	23	39.4	-2.5	68	1	10	14	32	3.66	+1.22	1.35	3.5	13	10	4	16	w.	Miss N. Dixie Winman.
Ebensburg.....	Cambria.....	2,000	2	37.2																

Daily Precipitation for November, 1920.

Stations.	Watershed.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown	Lehigh.			.35					.15								.20	1.74						1.18		.15			.10				3.87
Altoona	Juniata	1.00	.08					.16	.08	.12	.02					.10	.31	1.42					.03	.54	.12	.06	.02	.05					4.11
Ansonia	Pine Creek		.55	T.					.10		.16						.12	.28	T.					.20	.12	.23	T.						2.68
Arendtsville	Potomac		.52	.04				.02		.02						.10	.70	1.78					.38	.60	T.			.04					4.20
Austin	W. Br. Susq																.19	.53	1.32					.83	.73		.20						4.71
Bellefonte	do.	.73	.11								.07		T.				.12	.23	1.18					1.13		.15							3.48
Bethlehem	Lehigh.		.55				T.	T.		.12	T.					.20	.30						1.19				.14			1.20			5.03
Blosserville	Lower Susq																.69	1.55					.64	.01		.01		.07					3.33
Bustleton	Lower Del		.33						.02				T.	.01			.10	2.74	.03			.03	1.20	.06	T.	T.	.11	.02					5.06
Carlisle	Lower Susq	.74							.06		.06		T.				.03	1.05	.55				.12	.27	.38	.06	T.	.05			.05		4.56
Catawissa	N. Br. Susq	1.05						.06		.06		T.				.18	T.	.36				.03											2.33
Center Hall	Susquehanna	.86							.05														.12	.27	.38	.06	T.	.05					
Chambersburg	Potomac						.09				.40		T.				.12	.80	1.05	.08		.05	.15	.60	.05	.16	.05	.30	.20		.02		5.12
Clearfield	W. Br. Susq	1.00	T.					T.	.02				T.	.01			.06	1.07	.97				.45	.05		.08	.05		.05				3.42
Coatesville	Lower Del.	.46	.20					.08	.01	.06	.01	T.				.06						.07	.46	.01	.02	.03			T.	.03			3.41
Colebrook	Lower Susq	.52	T.						.05	.15	.14					.11	.70	1.82					.45	.16	.09	T.							4.65
Cresson	Juniata	.98						T.	.04				.02				T.	.36	1.19				.14	1.06		.02							3.30
Doylestown	Lower Del		.47																														
Driftwood	W. Br. Susq							.12		.15	T.		T.	T.			T.	.15	1.55				.21	.44	.14	.04	T.	.06			.05		3.52
Emporium	W. Br. Susq	.61	T.																														
Ephrata	Lower Susq																																
Everett	Juniata	.54	.21				.02		T.		T.		T.			.09	1.36	1.01					.13	.47	.07								3.90
Freeland	Lehigh.		1.24					.21		.24	.09			.01			.04	1.20		.41		.02	.12	.84	.21	.11	.10	T.	.12				4.96
George School	Lower Del.		.30				T.	.03	T.		T.		.02				.42	1.55					.21	.90	.01	.03		.05	T.		T.		3.52
Jettysburg	Potomac	.27					.15	.08								.08	.58	1.90					.18	.84			.08	.01					4.17
Jirardville	Schuylkill	1.05					.07	.02				T.				.10	.89	.60			.03		.02	.78	.05	.10			.08		.24		4.03
Jordon	Lower Susq	.49	.64				.06	.07		.09						.10	2.10	1.11			.02		.71	.13	.20	T.	.07	.06	T.				4.85
Joulesboro	Lehigh.		1.04				.14	.12		.11			.08				.12	.96					.88	.24	.26			.15					4.10
Graterford	Schuylkill	.18	.01				.04	.03								.02	.94	.06				1.06	.64	.04									3.02
Lamburg	Schuylkill	.69					.10		.30							T.	.90	.44				.20	.37	.40	.90		.11			.90			5.31
Lanover	Lower Susq	.20	.14				.02	.01	.12				T.	T.		.08	.64	1.48					.72	.07	.04	T.	.02	.08					3.62
Larrsburg	do.	.70					.03		T.		T.					.02	1.34	.35				T.	.52	.15	.02	T.	T.	.04			.10		3.27
Holtwood	Lower Susq							T.		T.		T.				.17	2.00					.33		.03						1.55			4.11
Honesdale	Lackawaxen																																
Huntingdon	Juniata	.58	.19				.09	.09		.03						.13	.49	1.61				T.	1.06	.08	.05		.05						4.45
Jersey Shore	W. Br. Susq	.44	.36				.05	.01	.13	.03						.11	.20	1.41					.65	.02	.13	.10	.60	.02					4.26
Kennett Square	Delaware		.29						*	*	.70						*	1.71					.76		.07	.02	.04	.02					3.61
Kanawha	Lower Susq	.05	.21				.02						.02			.10	.75	1.30					.30			.10	.07		.05				2.97
Kansford	Lehigh.		.85				T.	T.	.07								.12	.95	.03				.36	.02		T.				.06			2.46
Kawenceville	N. Br. Susq	.38					T.	.08	T.		T.						T.	1.10			T.		.50	T.	.40		.05	T.					2.51
Kebanon	Lower Susq	.10	.53				.03									.05	.41	1.26					.57	T.	.08	.05	.03						3.11
Kewburg	W. Br. Susq												.07			.08	1.02	1.22	.01			.05	.50	.15	.07	.12	.15						3.44
Kloyd	Pine Creek	.72	.15				.12	.06	.14								.08	1.32					.41			.16		.09					3.25
Lock Haven	W. Br. Susq	.60	.20				.06		.18							.10	.18	1.57					.04	.58	.05	.14	.01	.09	.03				3.83
Lokens	Susquehanna	.22	.82				.03	.09	.09							.09	.36	1.40					1.09	.04	.29	.08	.08	.34					4.93
Louch Chunk	Lehigh	.53	.44				.09	.08				T.				.09	1.23	.42					.37	.44		.10		.13					3.92
Ledia	Lower Del.																																
Millintown	Juniata	.50	.58				.07	.04	.04							.09	.38	1.61					.52	.02	.01		.07						3.93
Millford	Upper Del.						.15	.04								.20		1.00					1.10			.10		T.		T.			2.59
Montrose	N. Br. Susq		.48				.15		.15							T.	T.	1.12			.05		.15	.92		.02	T.	T.	T.				2.89
Mount Pocono	Upper Del.	1.50	.50				.03	.10	.15		.24					.02	.50	.70	1.00			T.	T.	.06	.05	T.	T.	T.	T.				4.61
Muncy Valley	W. Br. Susq	.71	.87				.02	.01	.24		.01	.01					.90	1.39					1.04	.50	.01	.25		.10					3.90
Narberth	Lower Del.	.17	.16				.02	.01	T.		T.	.01	.01			T.	.90	1.39					1.04	.50	.01	.25		.10			.01		4.33
Neshaminy	Lower Del.	.15	.32				.02					.02					.07	1.88	.02				1.20		.01	.01		.03	.02	.01			3.57
Nelms	Lehigh.	1.05					.15		.01	T.		T.				.06	.60	.44															

Daily Temperatures for November, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Atlantic Drainage.																																
Altoona.....	Maximum....	68	61	52	60	56	53	45	53	58	58	47	41	32	41	32	33	34	36	50	57	55	50	40	39	40	38	36	38	38	39	46.0
	Minimum....	48	46	36	31	40	34	35	40	41	37	32	24	17	17	25	29	30	30	29	44	36	40	34	35	37	35	32	34	33	29	33.7
Bethlehem.....	Maximum....	68	68	65	60	61	62	60	55	60	60	63	45	40	40	42	37	42	50	53	56	53	43	46	44	41	43	43	41	41	44	50.9
	Minimum....	46	47	40	39	36	37	36	40	36	42	45	32	21	21	24	31	31	34	29	37	33	34	37	36	31	31	31	32	26	32	34.2
Bustleton.....	Maximum....	68	67	62	57	62	58	51	58	61	59	45	43	40	43	38	37	50	51	53	56	50	48	46	43	40	46	43	42	40	47	60.1
	Minimum....	38	49	41	38	38	46	42	40	40	40	37	31	22	20	23	33	35	35	29	34	42	40	42	37	35	32	34	39	29	35	36.0
Carlisle.....	Maximum....	66	56	53	56	59	57	50	55	58	58	46	46	37	40	36	35	41	45	55	63	48	46	45	46	46	45	43	45	43	40	48.6
	Minimum....	40	48	39	33	32	35	35	40	42	42	35	30	20	15	24	22	32	33	28	32	35	40	38	40	40	38	36	38	28	33	34.1
Chambersburg.....	Maximum....	68	62	53	55	55	48	57	58	70	58	58	60	40	38	38	40	42	38	48	45	46	50	53	46	42	39	40	36	44	43	49.0
	Minimum....	44	47	37	29	28	32	42	34	35	29	23	30	18	11	24	27	29	29	28	32	32	33	33	30	37	35	29	30	32	28	30.9
Emporium.....	Maximum....	61	54	45	52	55	52	45	52	59	55	45	37	32	36	36	35	38	38	45	49	51	48	43	40	41	40	39	42	42	44	45.0
	Minimum....	46	45	37	39	31	28	34	35	34	33	23	20	18	7	21	23	33	30	20	31	30	38	35	35	36	35	33	37	33	25	30.8
Gettysburg.....	Maximum....	75	60	59	60	65	61	49	60	57	58	47	42	43	46	35	34	41	53	60	66	55	48	48	46	49	49	43	43	43	40	51.2
	Minimum....	42	47	37	31	34	34	32	38	43	41	37	30	19	14	25	33	32	30	30	39	36	42	40	40	40	34	35	38	28	34	34.5
Gordon.....	Maximum....	63	55	53	53	56	52	44	44	57	57	44	41	35	38	36	33	35	40	50	55	48	41	40	38	38	40	38	44	40	41	45.0
	Minimum....	34	45	34	28	27	29	33	42	29	38	26	27	14	9	67	28	31	35	22	28	37	38	38	34	34	31	35	25	30	30.4	
Harrisburg.....	Maximum....	68	56	53	55	59	56	48	56	58	57	46	41	38	42	36	36	43	47	54	60	48	45	43	44	47	44	43	45	39	41	48.3
	Minimum....	49	50	42	40	42	42	42	43	46	40	38	28	25	23	28	33	34	36	34	38	41	39	40	42	38	39	38	39	34	35	37.9
Honesdale.....	Maximum....	64	56	56	56	58	54	52	56	58	58	46	46	38	40	38	38	40	44	50	52	52	50	44	42	44	44	42	42	44	44	45.3
	Minimum....	50	48	40	40	38	50	40	41	40	42	30	30	22	18	28	30	32	38	32	36	38	42	42	38	37	38	36	36	34	34	36.8
Jeffrey Shore.....	Maximum....	67	65	65	61	63	64	60	65	63	62	51	46	40	46	45	37	46	52	58	60	55	54	48	46	48	46	45	46	48	43	53.2
	Minimum....	43	54	39	29	29	34	41	39	43	36	31	19	13	19	19	31	33	31	23	28	29	41	39	39	30	36	32	41	25	35	35.0
Lancaster.....	Maximum....	70	61	62	58	60	60	60	58	60	60	48	45	40	45	46	36	43	46	55	60	63	44	50	45	46	44	41	45	44	42	51.3
	Minimum....	39	49	41	33	35	37	36	41	42	42	36	29	21	19	23	33	33	36	30	33	36	38	40	39	38	36	37	35	30	34	35.0
Lebanon.....	Maximum....	66	59	52	56	62	56	52	59	57	58	50	44	34	40	36	35	37	44	49	57	55	51	44	42	42	41	40	43	45	44	48.3
	Minimum....	44	45	37	33	31	29	34	38	35	39	24	24	17	12	22	26	29	34	26	30	31	39	35	35	33	32	31	32	30	31.4	
Lock Haven.....	Maximum....	65	58	60	58	60	58	45	55	55	55	41	37	44	41	37	44	40	46	51	56	47	42	44	40	39	41	39	42	39	43	47.2
	Minimum....	39	47	39	35	30	35	36	40	35	38	31	25	20	14	19	32	34	35	27	32	39	37	39	35	33	33	34	34	28	32	32.9
Mauch Chunk.....	Maximum....	67	54	52	49	68	58	48	56	62	61	48	40	33	42	35	40	43	44	65	60	58	48	44	45	43	44	45	43	42	41	49.2
	Minimum....	51	50	40	33	32	35	34	40	38	39	33	27	21	13	24	33	36	34	32	29	30	34	34	39	40	37	35	35	31	33	33.6
Milford.....	Maximum....	63	55	60	51	58	55	49	54	51	58	48	41	40	45	33	36	40	48	55	49	45	45	43	42	36	42	39	38	48	42	47.0
	Minimum....	35	39	29	29	22	27	30	35	27	30	24	28	17	10	11	27	28	31	22	24	26	30	34	29	25	26	29	28	26	21	26.6
Montrose.....	Maximum....	58	52	54	54	54	52	42	52	55	55	41	38	35	40	33	33	36	39	44	44	45	43	43	33	34	36	35	37	36	37	43.0
	Minimum....	40	48	32	35	34	30	32	32	33	30	25	22	15	14	22	24	27	26	24	32	35	33	34	25	24	25	27	25	23	25	28.4
Muncy Valley.....	Maximum....	66	59	58	55	60	60	52	57	52	55	47	42	36	41	33	37	43	47	50	53	52	53	49	42	42	41	41	42	43	40	48.3
	Minimum....	42	46	38	34	29	29	35	40	32	38	24	24	14	12	22	28	32	30	24	32	37	40	40	36	33	32	32	33	25	35	31.8
Narberth.....	Maximum....	68	68	60	58	61	58	48	58	61	57	45	43	40	44	37	37	52	50	56	57	53	48	45	43	42	44	44	43	39	45	50.1
	Minimum....	42	50	41	38	41	40	38	40	43	41	38	29	21	23	25	33	34	35	28	37	39	40	39	38	35	33	36	39	30	32	35.9
Philadelphia.....	Maximum....	69	70	58	58	61	59	51	59	62	59	46	43	42	43	43	44	52	52	56	58	53	50	49	46	43	48	46	43	40	49	51.7
	Minimum....	48	50	45	44	45	46	45	45	50	44	40	29	27	32	35	36	39	38	35	41	43	41	42	41	38	38	40	39	33	37	40.3
Reading.....	Maximum....	67	66	54	57	60	58	47	55	61	57	44	40	39	42	36	40	43	47	56	57	48	45	45	44	42	42	42	42	43	44	48.7
	Minimum....	48	51	43	40	43	42																									



Scale of Shades.

- 0 to 1 inch.
- 1 to 2 inches.
- 2 to 4 inches.
- 4 to 6 inches.
- Over 6 inches.

Daily Precipitation for November, 1920.—Continued from page 85.

Stations.	Watershed.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Davis Isl. Dam|||	Ohio.....		.11	.12					.12	T.	.07	.13		T.				.02	.02	1.12	.05					.16	T.	.17	T.		.01				2.03		
Derry.....	Conemaugh.....		.67					.10	T.	.07	.02					.10	.75	1.35					.11	.06	.25	.15	.01	.02						3.66			
Ebensburg.....	Conemaugh.....		.84	.11				.15	.18	.16	.05					T.	.42	1.30					.39	.16	.15	.05	.04							4.00			
Edinboro.....	Allegheny.....		.80	.18				.04	.12	.05			.24	.02			1.74	1.10					.36	.06	.11	.31	.15	.05						4.33			
Elk Lick.....	Youghiogheny.....		.90	.03				T.		.05	.13		T.			.12	.84	.35					.07	T.	.04	.10	.04	.03			.08			2.65			
Falls Creek.....	Allegheny.....		.82					.08		.15	.13						.18	1.36					.08	.39	.14	.13	.02	.03						3.67			
Franklin|||	Allegheny.....		.23	.27	T.			.04	.18	.04	T.	T.	T.				.18	1.32	.09				.08	.39	.14	.13	.02	.03						2.57			
Freeport|||	Allegheny.....		.42	.31				.26	.06	.06			T.			T.	.02	1.23	.12				T.	.28	.03	.17	.12	T.	T.					3.08			
Greensburg|||	Monongahela.....			.50				T.	.02	.10						.16	T.	1.10	.12					.60		.20	.10		T.					2.84			
Greensburg.....	Youghiogheny.....		.65					.08	.01	.05	.05		.07			.14	.40	.93					.12	.28	.10	.21	T.	.04			.11			3.24			
Greenville.....	Beaver.....																																	2.10			
Grove City.....	Youghiogheny.....		.24					.30	.35	.14	.22						.19	.37					T.	.10	.10	.06	.03							2.10			
Herr's Isl. Dam|||	Ohio.....		.11	.22				.13	T.	.17	T.	T.	T.			.01	.01	1.03	.15				T.	.36	T.	.15	.02		T.					2.36			
Indiana.....	Conemaugh.....		.95					.20		.15								1.70						.22	.21	.05	.05							3.53			
Irwin.....	Youghiogheny.....		.40	T.				.11	.06	.01		T.				.03	.48	.92					.07	.25	.20	.11	.10	.06			.15			2.95			
Johnstown.....	Conemaugh.....		1.13	T.				.11	.16	.01						.05	.91	1.17				T.	.01	.24	.12	.24		.02			.10			4.27			
Ketner.....	Allegheny.....		.52	.05				.08		.25	.03		.02	.02			.15	1.37	.01				.11	.31	.15	.10	.06	.03						3.26			
Linesville|||	Beaver.....		.89	.06	.05			.06	.12	.03		.04	.01				.01	2.08	.03				.10	.07	.02	.25	.11		.07					4.00			
Lock No. 4|||	Monongahela.....		.17	.30				.03	T.	.08		T.				T.	.03	1.03	.16					.40		.17	.03		.05					2.45			
Lyeippus.....	Conemaugh.....		.85					T.		.10		T.				.06	.80	.85					T.	.10	.15	.29								3.20			
Mosgrove|||	Allegheny.....																																				
New Castle|||	Beaver.....	.23	.09					.19	.05	.23			T.			T.	T.	.20	.05			.09		.14	.13	.03					.42			1.85			
North Shenango|||	Beaver.....		.95					.17	.28	.08								1.00	.12				.23		.24	.07	T.			.24				3.38			
Parkers Landing|||	Allegheny.....		.40	.20				.08	.04	.20							.04	.70	.15		T.	T.	.20	.12	T.	.04	.02							2.19			
Pennline|||	Beaver.....		.38	.32				.04	.13	.03		.04	.02				.01	1.49	.18				.25		.09	.27	.12		T.					3.28			
Pittsburgh***	Ohio.....	T.	.29					.14		.11		T.				.03	.86	.26	T.		T.	T.	.40	.01	.12	.03		.01			.31			2.57			
Ridgway.....	do.....		.45					.12		.14							.63							1.41	.23									2.98			
Saegerstown.....	do.....		.65	.05				.05		.44	.05	.05	.15				.27	1.45					.05	.15	.05	.20		.08						3.69			
Saltsburg|||	Conemaugh.....		.10	.73				.19	T.	.30							.05	1.21	.21				.03	.16	.01	.20	.07	T.	.07					3.33			
Shanksville.....	Conemaugh.....																																				
Sharon|||	Beaver.....	.36	.07					.17	.14	.26		T.	T.				T.	1.30	.01					.20		.07	T.		T.					2.58			
Somerset.....	Youghiogheny.....	.65	T.					T.		.21						.26	1.30	3.00						.11	.06	.21	.16	.05	.16	.05	.06			6.22			
Springdale.....	Monongahela.....	.45	.16					.16	.03	.16						.03	.02	1.13	.12				.03	.32	.01	.17	.03		.04					2.86			
Summit|||	Beaver.....		.93	.36					.29			.07	.06					1.28	.42					.20	.10	.31								4.02			
Turnerville|||	do.....	.40	.20					.10	.10				.01					1.60	.10				.20		.05	.10	.15	T.	.15					3.16			
Uniontown.....	Monongahela.....	.56						.02		.02						.15	1.15	.58					.04	.22	.15	.21	.04				.12			3.32			
Vandergrift.....	Conemaugh.....	.58						.20		.10						.05	.23	1.03					.10	.24	.07	.10		.03						2.73			
Warren.....	Allegheny.....	.35	.16					.12	.22	.04		.08	.16			.05	.25	.35					.12	.24	.04	.04								2.37			
Westford|||	Beaver.....	.65	T.					.22		.05		T.						1.83					.33		.07	.22	T.	T.						3.37			
West Newton|||	Youghiogheny.....	.10	.40					.03								T.	.02	1.18	.23					.42		.15	.04							2.57			
Lake Drainage.																																					
Erie***	Lake Erie.....	.06	.69	.33				.01	T.	.11	.01	.02	T.	T.		.01	.50	1.00			T.	T.	.11	.25	.20	.30	T.	.02			.10			3.72			
West Bingham.....	Genesee.....		.45	.03				T.		.18	.20		.05	T.			.05	.30			T.			.30	.10	.30	T.	.05						2.01			

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

03
P
U. S. DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

UNIVERSITY OF ILLINOIS LIBRARY

MAR 1 1921



CLIMATOLOGICAL DATA

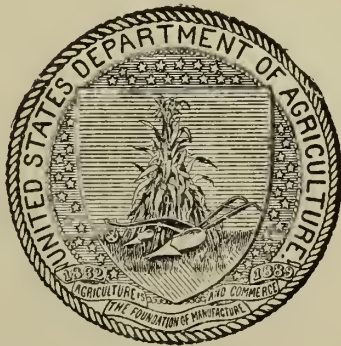
PENNSYLVANIA SECTION

DECEMBER, 1920.

BY

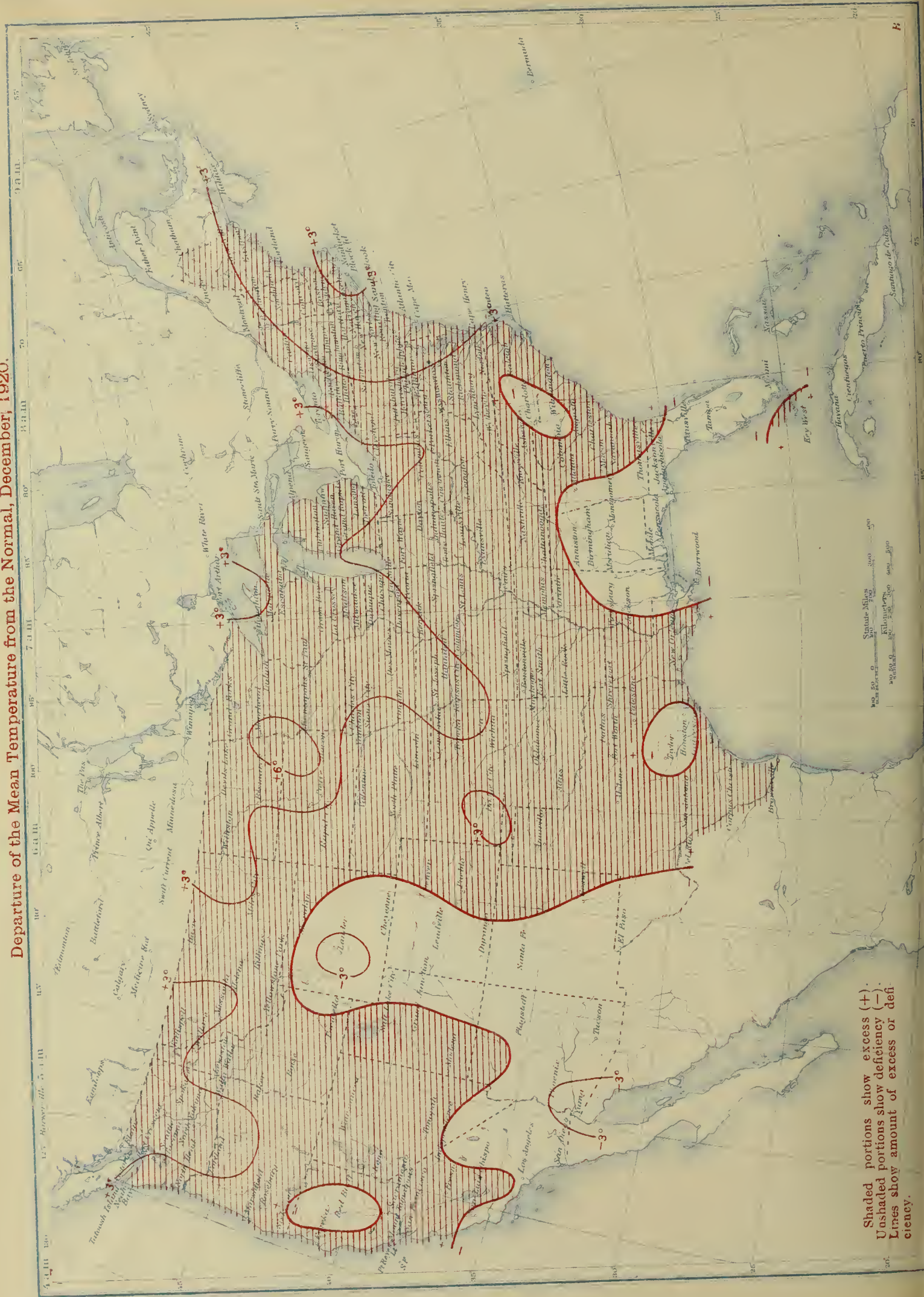
GEORGE S. BLISS

METEOROLOGIST



PHILADELPHIA, PA.
WEATHER BUREAU OFFICE
JANUARY 28, 1921.

Departure of the Mean Temperature from the Normal, December, 1920.



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

VOL. XXV. PHILADELPHIA, PA., DECEMBER, 1920. No. 12.

GENERAL SUMMARY.

The month as a whole was comparatively mild and pleasant. The cold periods were of short duration and generally moderate. Much of the precipitation occurred at night, and there were but few days that were disagreeable to be out of doors. Field work on the farms was nearly finished at the beginning of the month, but some corn fodder remained in the fields. Building and construction work was carried on to a limited extent, but under favorable conditions for the time of the year. There were many days, especially in the southeastern counties, that were fine for motoring and out-door sports. The snowfall was light in most places, and did not remain long on the ground. The winter grains did not suffer from the lack of snow covering, as the frost did not penetrate deeply, and at the end of the month most of the fields in the south-central and southeastern counties were still green. Pastures in sheltered places remained green and stock was turned out-of-doors a large part of the time and was in fine condition. There was ample rainfall to replenish the water supply, and the streams were generally at moderate stages. The sunshine was about normal except in a few of the north-western counties, where it averaged only about 12 percent of possible. At Erie there was a total of about 35 hours of sunshine for the month. The greatest amount of sunshine was reported from the central counties. There were no severe storms. Erie reported a maximum wind velocity of 54 miles per hour and Pittsburg 49 miles, but in the central and eastern portions of the State no high winds occurred. There was about the usual amount of light fog, but very little heavy or dense fog. A moderate thunderstorm occurred in the southeastern portion of the State on the 5th.

TEMPERATURE.

The mean temperature for the State, as reported from 75 stations was 33.4°, or 2.9° above the December normal. An excess was reported from practically all parts of the State, and it was comparatively uniform. The highest temperatures were generally recorded at eastern stations on the 14th, and in the western part of the State on the 4th. The lowest temperatures occurred on the 20th, 21st, and 29th. The highest mean was 40.3° at Irwin, and the lowest was 27.6° at West Bingham. The highest temperature recorded was 68° at Irwin on the 13th, and the lowest was -7° at Ebensburg on the 21st.

PRECIPITATION.

The average precipitation from rain and melted snow was 3.28 inches, or 0.13 inch above the December normal. Nearly all of the rain occurred on six dates, and most of the snow fell during the third week. The greatest amount of precipitation was 6.77 inches at Gordon, and the least was 1.53 inches at Claysville. The snowfall was light except in Erie and Crawford counties and in the mountains from Clearfield county southward. The heaviest snowfall was about 27 inches in the northern and western portions of Crawford county. In the southeastern counties there was one light snowfall, occurring on the morning of the 27th. The precipitation changed to rain in the southeastern counties and the snow melted away before night. A light snow covering remained at most places in the mountains and in the northern counties until the end of the month.

BAROMETRIC PRESSURE AND WINDS.

Stations.	In inches, reduced to sea level.					Total movement, in miles.	Velocity, in miles per hour.			
	Average.	Highest.	Date.	Lowest.	Date.		Average.	*Highest.	Direction.	Date.
Erie.....	29.93	30.50	21	29.19	14	14,595	19.6	54	sw.	23
Harrisburg.....	30.02	30.53	21	29.37	14	4,211	5.7	27	w.	5
Philadelphia.....	30.00	30.55	21	29.36	14	8,158	11.0	38	s.	14
Pittsburgh.....	30.01	30.49	21	29.33	14	10,434	14.0	49	w.	15
Reading.....	30.00	30.58	21	29.34	14	6,210	8.3	33	nw.	2
Scranton.....	29.97	30.56	21	29.30	14	6,300	8.5	35	sw.	23

* For any five-minute period.

SUNSHINE AND HUMIDITY.

Stations.	Sunshine.					Humidity.		Fog.	
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Number of days with.		Average per cent.		Number of days with.	
				80 per cent or more.	20 per cent or less.	8 a. m.	8 p. m.	Light fog.	Dense fog.
Erie.....	34.9	234.5	12	1	24	78	78	1	0
Harrisburg.....	155.7	290.6	54	8	8	73	68	2	2
Philadelphia.....	145.8	290.6	50	10	8	81	80	7	1
Pittsburgh.....	94.4	237.3	33	5	16	76	70	3	0
Reading.....	127.1	290.6	44	8	11	74	67	7	0
Scranton.....	.....	.....	.....	1	19	87	75	6	0

COMPARATIVE DATA FOR DECEMBER.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	32.5	62	-10	3.14	5.57	1.44	8	8	15
1889.....	39.6	73	0	2.77	5.05	0.85	11	9	11
1890.....	27.2	59	-11	3.97	9.68	1.72	7	8	16
1891.....	38.4	68	-3	4.09	6.53	2.00	12	8	11
1892.....	27.8	70	-13	1.69	4.37	0.40	7	9	15
1893.....	32.2	70	-7	3.06	6.07	1.41	6	11	14
1894.....	32.4	66	-28	3.95	5.93	2.27	10	9	12
1895.....	34.2	70	-10	3.22	6.55	1.40	10	9	12
1896.....	30.6	67	-13	1.20	2.62	0.40	10	9	12
1897.....	33.0	73	-6	3.95	6.25	1.28	6	8	17
1898.....	29.8	68	-11	2.98	4.79	1.31	10	8	13
1899.....	31.5	73	-11	3.04	6.00	1.18	10	10	11
1900.....	31.2	65	-2	2.08	4.16	0.40	8	9	14
1901.....	29.1	77	-18	5.91	10.26	2.62	7	9	15
1902.....	28.4	68	-12	5.54	8.51	1.97	7	7	17
1903.....	25.4	60	-14	2.66	4.83	0.92	8	9	14
1904.....	25.8	71	-19	2.48	3.71	1.32	7	7	17
1905.....	33.6	65	-5	3.57	5.48	0.95	10	7	14
1906.....	30.8	67	-14	3.97	7.08	1.69	5	5	21
1907.....	33.2	68	-8	4.30	7.89	1.85	7	8	16
1908.....	32.0	74	-2	2.86	4.61	1.26	9	8	14
1909.....	27.0	71	-10	3.39	8.50	1.19	9	8	14
1910.....	24.4	68	-14	2.65	4.41	0.64	8	8	17
1911.....	36.3	70	5	3.27	5.99	0.75	7	5	19
1912.....	34.4	74	-8	3.27	6.48	1.70	9	7	15
1913.....	34.2	66	-7	2.63	4.11	0.69	9	6	15
1914.....	27.3	69	-28	4.63	7.74	2.43	8	5	18
1915.....	29.4	70	-7	4.06	6.53	1.36	6	8	17
1916.....	29.7	73	-12	3.07	6.38	0.59	11	9	11
1917.....	21.5	52	-28	1.78	5.16	0.60	10	8	13
1918.....	36.6	72	-1	3.38	5.74	0.90	9	7	15
1919.....	25.3	66	-23	2.61	4.75	0.95	9	8	14
1920.....	33.4	68	-7	3.28	6.77	1.53	7	9	15

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.		Highest stage.		Lowest stage.		Flood stage.
		Mean.	Highest.	Mean.	Highest.	Mean.	Highest.	
Port Jervis.....	Delaware.....	5.4	9.0	2	3.5	23	18	
Phillipsburg.....	Delaware.....	5.9	11.5	3	3.3	30	22	
Mauch Chunk.....	Lehigh.....	4.6	6.2	15	4.3	12-13	15	
Wilkes-Barre.....	Susquehanna.....	8.7	14.6	3	5.2	29-30	20	
Williamsport.....	Susquehanna.....	4.4	7.8	16	2.7	31	20	
Harrisburg.....	Susquehanna.....	6.3	8.9	16	4.8	31	17	
Freeport.....	Allegheny.....	7.6	10.2	16	5.5	22	22	
West Newton.....	Youghiogheny.....	2.5	5.5	24	1.3	13	20	
Greensboro.....	Monongahela.....	10.3	15.0	24	8.9	13	20	
Pittsburgh.....	Ohio.....	6.4	10.3	24	3.7	29	22	
Beaver Dam.....	Ohio.....	10.7	16.2	7	6.1	27	30	

Climatological Data for December, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 0.1 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																			
Altoona.....	Blair.....	1,615	33	31.2	+2.2	55	4	7	21	30	2.81	+0.44	0.99	10.0	13	8	9	14	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	36	35.8	+2.7	63	14	15	26†	23	4.32	+0.81	2.09	.....	6	2	22	7	Prof. Chas H. Rominger.
Bustleton.....	Philadelphia.....	125	1	36.4	.....	66	14	16	26†	22	6.02	.....	1.95	0.6	6	13	6	12	Experiment Station.
Carlisle.....	Cumberland.....	467	53	34.6	+3.3	60	14	14	21†	22	4.51	+0.57	1.47	3.0	8	7	9	15	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	23	34.5	+2.9	63	14	10	30	33	3.90	+0.94	1.75	0.4	10	7	5	19	H. H. Yetter.
Center Hall.....	Center.....	1,272	24	33.0	+4.0	58	4	6	21	28	.....	.....	.....	2.5	.....	17	7	7	S. W. Smith.
Chambersburg.....	Franklin.....	631	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Shirley J. Zarger.
Clearfield.....	Clearfield.....	1,120	10	31.4	+3.0	58	4	3	20†	33	2.89	-0.25	0.78	15.0	14	6	10	15	E. W. Hess.
Coatesville.....	Chester.....	380	32	34.8	+1.8	63	14	11	29	23	4.39	+0.14	1.80	0.7	9	7	11	13	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	10	34.8	.....	61	14	12	29	26	3.96	.....	1.09	0.9	10	9	8	14	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	32	31.2	+2.1	58	4†	0	21	32	2.65	-0.68	0.88	3.5	9	3	13	15	T. B. Lloyd.
Ephrata.....	Lancaster.....	366	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacob Eichelberger.
Everett.....	Bedford.....	1,080	22	33.9	+4.1	55	4	11	21	28	1.85	-1.16	0.90	0.9	6	20	3	8	J. E. Thropp Co.
Freeland.....	Luzerne.....	.....	5	27.7	.....	52	14	7	20	27	5.19	.....	1.14	4.3	17	5	6	20	Theo. Reichmann.
George School.....	Bucks.....	190	13	35.9	+3.6	66	14	14	29	25	5.22	+1.43	1.63	1.0	9	14	3	14	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	46	36.0	+4.3	63	14	13	29	26	5.11	+1.79	2.38	2.0	11	7	13	11	Col. E. B. Cope.
Gordon.....	Schuylkill.....	940	16	30.1	+1.6	60	14	6	29	27	6.77	+2.58	2.85	3.0	9	7	13	11	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	State Sanatorium.
Hanover.....	York.....	600	16	35.6	+1.8	63	14	15	21†	25	3.72	+0.28	1.17	T	7	10	8	13	Miss Olive M. Ryder.
Harrisburg.....	Dauphin.....	361	50	36.2	+3.2	60	14	19	29	18	3.94	+0.79	1.40	2.0	10	8	5	18	U. S. Weather Bureau.
Honesdale.....	Wayne.....	1,150	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Frank X. Stegner.
Huntingdon.....	Huntingdon.....	650	32	33.8	+2.3	57	14	9	21†	33	2.48	-0.63	1.02	2.1	9	6	6	19	Prof. W. J. Swigart.
Kennett Square.....	Chester.....	340	48	36.1	+2.9	63	14	15	29	20	4.19	+0.45	1.51	0.8	8	8	14	9	W. P. Mercer.
Lancaster.....	Lancaster.....	255	32	36.0	+2.6	64	14	13	21†	28	3.51	+0.08	1.35	2.9	8	12	11	8	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	22	32.5	+5.1	58	14	9	20	26	2.42	+0.24	0.75	2.0	6	3†	7†	19†	C. P. Darling.
Lebanon.....	Lebanon.....	469	79	35.5	+3.6	63	14	14	29	24	4.77	+1.16	1.32	1.0	10	4	20	7	S. B. Benzing.
Lewisburg.....	Union.....	450	45	34.0	+5.0	59	14	12	21†	24	4.02	+0.76	1.56	1.2	9	6	10	15	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	32	32.0	+0.9	56	14	7	29	29	2.23	-0.80	0.78	2.0	10	2	16	13	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	5	33.0	.....	60	14	8	21†	31	4.60	.....	2.25	1.5	10	11	8	12	Susquehanna Collieries Co.
Mauch Chunk.....	Carboun.....	600	30	33.6	+3.1	61	14	12	29	27	5.11	+0.83	1.82	0.7	11	10	10	11	R. K. Wintermute.
Media.....	Delaware.....	103	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	North Springfield Water Co.
Mifflintown.....	Juniata.....	445	16	33.9	+3.7	57	14	12	21	26	3.39	+0.30	1.37	1.5	10	5	9	17	Wellington Smith.
Milford.....	Pike.....	500	17	31.0	+3.8	64	14	4	26†	44	4.34	+0.80	1.60	2.0	6	10	17	4	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	17	28.8	+3.2	55	14	3	20	28	4.47	+1.82	1.90	6.0	9	8	3	20	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	18	29.0	+4.0	48	13	2	28	26	6.62	+2.85	2.50	2.0	8	6	5	20	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	8	33.7	.....	60	14	6	29	32	4.60	.....	2.28	2.0	7	3	8	20	S. P. Worthington.
Narberth.....	Montgomery.....	300	1	37.0	.....	65	14	15	29	25	5.34	.....	1.88	0.2	8	7	16	16	Charles Decker.
Neshaminy Falls††	Bucks.....	60	31	36.2	.....	67	14	14	20†	37	5.61	.....	1.22	T	10	15	5	11	North Springfield Water Co.
Palmerton.....	Carbon.....	398	3	34.2	.....	63	14	11	29	28	4.48	.....	2.00	1.6	7	16	8	7	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	49	39.8	+4.0	67	14	20	26	25	4.66	+1.22	1.48	0.8	8	7	7	17	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	4	38.8	.....	66	14	20	29	27	4.86	.....	1.55	1.2	7	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	9	35.5	.....	55	5	8	21	34	.....	.....	.....	.....	.....	.....	.....	.....	North Springfield Water Co.
Quakertown.....	Bucks.....	496	35	34.0	+2.9	62	14	11	20	24	4.80	+1.27	1.70	1.6	8	8	11	12	John E. Benner.
Reading.....	Berks.....	325	50	36.9	+4.2	66	14	18	29	24	4.75	+1.26	1.74	1.3	10	6	6	19	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	9	36.1	.....	63	14	14	29	21	3.92	.....	1.41	0.7	10	6	10	15	S. A. Clarke.
Scranton.....	Lackawanna.....	805	25	33.6	+3.6	63	14	13	29	24	3.03	-0.20	1.00	2.0	13	4	8	19	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	31	34.4†	+3.0	58	14	12	21	24	3.83	+0.63	1.48	0.4	8	3	12	16	J. M. Boyer.
Shawmont.....	Philadelphia.....	51	24	38.1	.....	65	14	19	29	21	4.66	+0.80	1.60	T	8	8	10	13	W. S. Guiles.
State College.....	Center.....	1,217	35	31.1	+1.5	57	4	9	29	27	2.50	-0.24	1.12	1.1	9	6	17	8	Prof. Wm. Frear.
Towanda.....	Bradford.....	754	25	32.0	+3.4	58	4†	5	20	24	2.42	+0.01	0.89	2.0	11	1	8	22	Hiram E. Bull. C. E.
Wellsboro.....	Tioga.....	1,419	55	28.4	+0.2	55	4	1	20†	29	1.81	-0.78	0.96	3.9	9	6	13	12	George W. Hill.
West Chester.....	Chester.....	455	87	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Williamsport.....	Lycoming.....	521	33	34.1	+3.6	58	14	12	29	21	3.03	-0.05	1.17	1.3	10	6	9	16	Jacob April.
York.....	York.....	400	32	35.6	+2.8	62	14	10	29	28	3.39	+0.25	0.99	1.0	8	9	12	10	York Water Co.
Ohio Drainage.																			
Beaver Dam††	Beaver.....	700	27	36.4	.....	61	5	12	21	31	2.26	-0.48	0.44	2.8	14	9	1	21	U. S. Engineer.
Bradford.....	McKean.....	1,427	5	30.2†	.....	56†	4	-1†	21	31	2.70	.....	0.47	13.5	19	6	7	18	City Engineer.
Bradys Bend.....	Armstrong.....	930	2	28.4	.....	54	4†	-3	21	39	2.78	.....	0.53	11.5	13	5	9	17	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	29	29.5†	.....	56	4	-4	20	39	2.91	+0.06	0.62	0.4	10	10†	14†	6†	John Fawcett.
Clarion.....	Clarion.....	1,500	25	.....	.....	.....	.....	.....	.....	.....	2.65	-0.85	0.47	.....	12	13	0	18	N. A. Goble.
Claysville.....	Washington.....	1,150	16	33.8	+1.9	62	13	5	20	29	1.53	-1.49	0.41	2.0	8	8	7	16	E. T. Buchanan.
Corry.....	Erie.....	1,400	7	30.7	.....	54	4	2	21	30	3.94	.....	0.67	23.4	21	2	9	20	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	23	33.1	+1.4	61	4	3	21	37	2.05	-1.29	0.45	5.0	11	7	8	16	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	2	28.4	.....	54†	4	-7	21	38	2.09	.....	0.54	3.0	12	9	9	13	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	3	30.0	.....	56	4	-1	21	33	2.57	.....	0.67	8.5	12	5	8	18	J. D. Miller.
Franklin.....	Venango.....	1,000	47	30.8	+1.6	56	4	4	21	31	3.27	-0.07	0.62						

Daily Precipitation for December, 1920.

Stations.	Watershed.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh	1.32	.45			.37	.02				.04				.60	.25								.93									4.38
Altoona	Juniata	.49	.32			.14					.08	.07			.99	.03	.08	.03	.04				.20	.19	T			.15					2.81
Ansonia|||	Pine Creek	.45	.21	T		.09									.77	.10								.34				.16	T				2.16
Arendtsville.	Potomac	1.00				.28					T				1.80		T						.52	.45				.38					4.43
Austin	W. Br. Susq.										.12				1.83	T						.33	.05										2.33
Bellefonte.	do										.12				1.83	T																	2.33
Bethlehem	Lehigh	2.09				.40					T				.68								.04	.85				.26					4.32
Blosserville	Lower Susq.					.35									2.30									1.50				.10					4.22
Bustleton.	Lower Del.	1.63				.97					.02				1.39									1.95				.06					6.02
Carlisle	Lower Susq.	1.20				.34					.06				1.47	.02	.08						T	.94				.40					4.51
Catawissa	N. Br. Susq.	.95	.07			.32					.05				T	1.75	.05				T			.48	.03			.03	.17				3.90
Center Hall	Susquehanna																																
Chambersburg.	Potomac																																
Clearfield.	W. Br. Susq.		.40			.20	.10					.10			.78	.06	.04	.02	.01	.04				.35	.40			T	.35	.04			2.89
Coatesville.	Lower Del.	1.80				.41					.02				.12	.83								.42	.26			.05	.48				4.39
Colebrook.	Lower Susq.	.89	.04			.60					T				.04	1.09	T	T	T	T	T			.70	.24			.01	.33				3.96
Cresson|||	Juniata	.40	.33			.19					.12	.15			.40	.20	.24	.10	.12	.04	.03			.21				.12	.06				2.71
Doylstown	Lower Del.	1.49				.77					T				1.15								T	.42				.68					4.51
Driftwood.	W. Br. Susq.	.30	.40			.30					T				T	1.00	.01	T	T	T	T		.20		.10		T	T	.15				2.31
Emporium.	W. Br. Susq.	.25	.28			.22	T	T			.06				.88	.15	T	T	T	T			.42	.24	T		T	T	.15				2.65
Ephrata.	Lower Susq.																																
Everett.	Juniata	.58			T	.07					.12				.90								.05					.13					1.85
Freeland.	Lehigh	.91	.40	.11		.35	.11	.02			.01	.06			1.14	.69	.08	.04	T		.05			.95	T		.02	.11	.10				5.19
George School.	Lower Del.	1.63	.01	T		.95	T				.04				.01	1.15							.18	.63				.62					5.22
Gettysburg.	Potomac	1.10	.02			.32					.02				.02	2.38	.03	T	T	.05			.15	.75				.27					5.11
Girardville|||	Schuylkill.	.59	.13			.57	T				.11				.07	2.27	.12	.05			.03		.89				.05	.22					5.10
Gordon.	Lower Susq.	1.05	.22			.54					.09				2.85	.10	T						.95					.61	.36				6.77
Gouldsboro|||	Lehigh	.92	.14			.54					.12				.84			.08	.06					.54			.12	.26					3.08
Graterford.	Schuylkill.	1.76				.54					.01				.11		T							.06			.42	.51					3.41
Hamburg.	Schuylkill.																																
Hanover.	Lower Susq.	1.17				.44									.06	.96							.17	.66				.26					3.72
Harrisburg***	do	.88	.01			.28					.02				15.127	T	T	T	.04	T			.99				.13	.17					3.94
Holtwood|||	Lower Susq.			.33							T			.05	.43	.06	T	T					.78				.28	.02					1.95
Honesdale|||	Lackawaxen																																
Huntingdon.	Juniata	.45	T		T	.19					.07	T			T	1.02	.04	.04					.12	.40				.15					2.48
Jersey Shore.	W. Br. Susq.	.71	.09			.17					.01				T	.70	T	.03					.02	.31				.07					2.11
Kennett Square.	Delaware	1.51				.40					.03				.05	.88						*	.79					.53					4.19
Lancaster.	Lower Susq.	1.35	.06			.35					.04				.61								.03	.82				.25					3.51
Lansford|||	Lehigh	.65	.10								.06				.63	.29	.06						.70					.03					2.62
Lawrenceville.	N. Br. Susq.	.60	.40				T				T				.45	.10							.75			T	.12						2.42
Lebanon.	Lower Susq.	.91				1.32					.02				.04	1.10	.03	.01	T		T	T	.10	.85				.39					4.77
Lewisburg.	W. Br. Susq.	.15	1.13			.31					.02				T	1.56	.05	T	T				.02	.55			T	.23					4.02
Lloyd.	Pine Creek	.24	.40								.05				.97	.03		.01										.09					2.23
Lock Haven.	W. Br. Susq.	.63	.06			.22					.05	T			T	.78	.02	.05	T		T		.02	.37				.13					2.33
Lykens.	Susquehanna	.68	.01			.40					.02				T	2.25	.05	.03	T				.02	.82			T	.32					4.60
Mauch Chunk.	Lehigh	1.82	.03			.26					.06				15.127	.08	.01		T				.25	.73				.45					5.11
Media.	Lower Del.																																
Mifflintown.	Juniata	.83	.05			.28					.03				1.37	.06	.02						.33	.26				.16					3.39
Milford.	Upper Del.	1.60				.70					.17				1.12						T			.55				.20					4.34
Montrose.	N. Br. Susq.	.95	.70			.80		T			.10				1.30	T		.01			.01			.40				.20					4.47
Mount Pocono.	Upper Del.	1.30													.50	2.50	T	T	.05				.50	1.00				.75	.02			6.62	
Muncy Valley.	W. Br. Susq.	.84	.30			.51									2.28				.07				.44					.16					4.60
Narberth.	Lower Del.	1.88				.71					.07				.03	1.14	T	T	T				.18	.70			T	.63					5.34
Neshaminy|||	Lower Del.	1.22	.44			1.00					.03				.02	.81	.57	T						.82				.30	.40				5.61
Palmerton.	Lehigh	2.00									.04				.45	.88	T	T					.73	.15			T	.23					4.48
Philadelphia (a).	Lower Del.	1.38				.70					.01				.02	.86	T						1.11				.09	.49					4.66
Philadelphia (d)|||	do	1.55	.12																														

Daily Temperatures for December, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.		
Atlantic Drainage.																																		
Altoona.....	Maximum...	44	40	49	55	54	36	38	38	34	37	35	41	41	51	42	31	30	26	26	27	30	31	46	33	25	27	35	34	39	47	42	37.5	
	Minimum...	37	35	32	40	38	34	32	20	19	27	33	20	29	40	31	25	15	21	18	11	7	28	31	22	12	11	24	16	9	25	38	25.0	
Bethlehem.....	Maximum...	48	52	51	51	54	48	44	42	40	38	43	47	47	63	57	42	39	38	35	34	40	38	47	45	39	30	34	36	32	45	43	43.3	
	Minimum...	39	38	29	32	45	40	37	25	24	30	31	26	31	40	42	29	25	24	19	19	17	19	31	30	20	15	22	28	15	26	30	28.2	
Bustleton.....	Maximum...	58	54	47	53	56	45	46	41	38	36	45	49	50	66	49	41	38	37	38	34	39	39	58	40	32	31	34	36	37	33	49	43.5	
	Minimum...	43	41	27	35	45	42	36	25	29	32	33	27	31	46	37	29	25	25	22	18	17	25	38	27	17	16	16	26	21	26	33	29.4	
Carlisle.....	Maximum...	46	48	48	52	51	43	45	40	35	37	42	44	43	60	45	45	38	34	35	32	35	33	48	40	30	31	35	36	36	44	46	41.5	
	Minimum...	38	40	30	32	42	40	35	26	26	31	34	24	30	42	32	30	27	26	19	17	14	29	32	25	19	18	25	25	14	24	26	28.1	
Chambersburg.....	Maximum...	44	45	56	58	50	39	43	41	35	37	38	46	46	52	43	34	32	29	27	26	34	43	45	32	29	31	36	35	35	42	46	39.6	
	Minimum...	32	34	31	39	38	35	32	20	17	20	23	13	19	31	30	24	22	22	17	9	3	29	32	24	13	17	26	15	10	16	28	23.1	
Clearfield.....	Maximum...	45	45	55	58	58	40	37	41	38	36	39	45	49	54	43	32	32	29	27	27	32	39	39	33	26	29	37	33	32	43	40	39.1	
	Minimum...	38	30	30	40	38	36	24	20	13	13	21	23	29	39	30	28	24	24	9	3	0	23	30	25	15	15	26	15	7	30	25	23.3	
Emporium.....	Maximum...	50	51	51	50	52	51	48	43	35	42	43	47	43	63	48	37	42	38	40	36	40	33	53	39	33	33	34	37	36	47	51	43.4	
	Minimum...	39	40	31	32	41	39	35	25	28	31	38	27	31	42	34	30	22	25	22	17	14	25	32	30	20	17	26	25	13	23	31	23.5	
Gettysburg.....	Maximum...	49	49	48	53	48	42	41	37	36	34	40	46	42	60	45	35	36	31	30	30	34	43	36	29	27	36	33	30	40	38	36.0		
	Minimum...	38	36	27	28	37	38	33	20	18	19	32	21	29	42	27	26	25	24	11	8	7	26	34	29	14	11	23	21	6	18	25	24.3	
Gordon.....	Maximum...	46	49	49	52	53	43	43	44	35	40	42	46	48	60	42	36	38	34	36	32	36	39	48	37	30	31	38	37	34	44	45	41.5	
	Minimum...	41	41	35	37	43	41	32	30	29	32	39	30	35	42	34	30	26	25	24	21	31	34	30	22	21	26	20	19	29	31	31.0		
Harrisburg.....	Maximum...	46	48	45	50	50	46	43	38	33	34	41	43	45	58	48	38	36	32	31	32	34	35	45	38	32	28	34	37	33	40	43	39.9	
	Minimum...	39	38	30	36	42	40	32	26	17	20	32	29	30	42	32	30	27	25	19	14	12	29	32	29	18	17	25	21	12	31	26	27.6	
Honesdale.....	Maximum...	50	51	50	54	49	48	47	45	42	40	42	50	49	64	57	44	42	38	38	39	40	39	52	45	36	31	35	36	36	48	44	47.8	
	Minimum...	39	39	28	30	43	41	36	24	27	26	33	22	27	43	32	28	24	21	14	13	23	32	33	20	17	26	15	13	20	24	27.8		
Lebanon.....	Maximum...	46	47	51	54	52	49	45	44	40	37	43	49	44	63	51	39	40	35	35	35	39	36	50	47	31	31	33	36	35	46	46	42.8	
	Minimum...	31	30	31	33	43	40	37	26	28	23	33	26	31	43	33	29	22	24	28	20	15	26	34	30	21	18	25	24	14	25	30	28.2	
Lock Haven.....	Maximum...	46	48	46	49	49	43	42	38	33	33	40	41	45	56	46	36	34	33	30	31	34	34	45	37	31	29	34	37	37	36	45	43	39.6
	Minimum...	35	34	29	31	39	36	32	19	14	21	30	22	36	40	30	26	24	23	15	8	7	27	29	25	15	14	22	17	7	28	26	24.6	
Mauch Chunk.....	Maximum...	47	49	43	50	50	43	43	46	47	34	40	49	44	61	41	35	36	33	33	32	40	37	49	37	28	25	35	36	31	41	41	40.5	
	Minimum...	40	37	26	33	42	39	30	26	26	27	33	23	31	38	27	27	23	24	17	13	29	36	26	19	14	23	19	12	21	27	26.6		
Mifflintown.....	Maximum...	47	47	48	49	49	43	43	42	33	39	41	43	45	57	44	36	34	33	32	35	34	47	38	29	34	38	38	39	47	45	40.8		
	Minimum...	35	35	30	30	41	39	31	22	19	29	38	22	29	31	32	28	26	27	22	19	12	30	33	27	20	16	26	13	13	27	27	27.0	
Milford.....	Maximum...	40	48	47	50	53	48	43	43	38	37	39	47	50	64	52	51	37	36	34	35	38	33	50	42	41	33	32	35	28	42	42	42.2	
	Minimum...	32	33	20	28	37	33	26	20	16	28	28	18	22	20	29	21	11	18	9	7	10	23	27	26	5	4	10	12	4	15	19	19.7	
Montrose.....	Maximum...	43	44	40	52	50	36	34	30	38	33	35	40	40	55	40	32	30	26	30	26	30	36	36	45	36	25	23	34	33	25	34	36.2	
	Minimum...	33	30	24	34	34	30	25	18	15	23	27	25	30	35	27	24	20	18	10	3	8	22	30	18	8	6	16	14	4	24	26	21.3	
Muncy Valley.....	Maximum...	53	49	46	57	55	47	44	36	41	31	38	42	47	60	59	36	33	34	31	34	38	45	46	36	30	25	35	43	29	37	38	41.1	
	Minimum...	36	40	30	35	40	39	32	25	16	19	29	21	21	42	27	28	22	12	22	22	31	35	28	14	22	22	20	6	24	28	26.3		
Narberth.....	Maximum...	57	51	48	52	56	44	47	42	38	37	44	50	52	65	48	43	40	37	38	34	40	42	57	40	31	32	34	37	35	51	45	44.1	
	Minimum...	42	41	30	37	44	41	32	27	30	32	33	27	33	47	34	29	26	25	23	20	18	27	39	29	22	17	27	23	15	26	34	30.0	
Philadelphia.....	Maximum...	59	54	49	57	58	47	48	41	40	42	47	48	53	67	49	42	41	39	39	36	38	57	58	40	34	33	41	40	36	50	48	46.2	
	Minimum...	43	43	38	42	44	43	36	32	32	34	39	36	38	47	38	30	29	29	27	26	27	32	39	31	23	20	30	23	21	28	34	38.4	
Reading.....	Maximum...	47	52	50	55	55	44	44	42	38	40	44	48	4																				



Scale of Shades.

- 0 to 1 inch.
- 1 to 2 inches.
- 2 to 4 inches.
- 4 to 6 inches.
- Over 6 inches.

Scale of Miles
0 10 20 30 40 50 60 70 80 90 100
Kilometers
0 10 20 30 40 50 60 70 80 90 100

Daily Precipitation for December, 1920. - Continued from page 93.

Stations.	Watershed.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Davis Isl. Dam|||	Ohio.....	.43	.41	.01		.02	.02				.07	.06			.34	.01	.02	.01	T.		T.		.01	.37	T.	T.		.31	.05				2.14				
Derry.....	Conemaugh.....	.25	.35			.10					.15				.45	.05	.08	.02		.03			.29	T.	T.	T.		.28					2.05				
Ebensburg.....	Conemaugh.....	.29	.40			.16					.04	.03			.54	.02	.06						.12	.28				.09					2.06				
Edinboro.....	Allegheny.....	.63	.59			.87					.30				.44	T.	.33	.21	.46	.05	T.		.05	T.	.08	.11	.03	.28	.02				4.45				
Elk Lick.....	Youghiogheny.....	.48	.27		T.	.10				T.	.05	.05			.67	.05	.05	.04	.06	T.			.63		T.	T.	T.						2.57				
Falls Creek.....	Allegheny.....	.11	.36			.15	.03				.08	.12			.49	.05	.04	.02	.02	.01				.19				.29					1.96				
Franklin|||	Allegheny.....	.18	.53	.10		.30	.22				T.	.22			.62	.04	.14	.02	.08	T.			.10	.21	T.	T.		.43	.08				3.27				
Freeport|||	Allegheny.....	.30	.44	T.			.04				.02	.09			.21	.10	.04							.51		T.			.41	.02				2.18			
Greensboro|||	Monongahela.....	.22	.20			.06	T.				.04				.50	.06	.12	.20	.06						.56		.05		.10					2.17			
Greensburg.....	Youghiogheny.....	.22	.43		T.	.13					.10	.04			.30	.06	.25	.08	.02	.04	T.		.40	T.	T.	T.	T.	.30	T.				2.37				
Greenville.....	Beaver.....	.44				1.44	.12				.20			.65		.25	.25					.48	T.				.22		.52	T.			4.37				
Grove City.....	Youghiogheny.....	.53	.76			.25	.01				.73	T.			.36	.10	.06	.08	.13	.30			.33		T.		T.	.45					4.05				
Herrs Isl. Dam|||	Ohio.....	.42	.48	T.		.01	.03				.06	.07			.31	.02	.05	T.	T.	T.			T.	.31	T.	T.		.30	.05	T.			2.11				
Indiana.....	Conemaugh.....	.40	.41		T.	.20					.15	.15			.44	.07	.08	.04	.06	.03			.33		T.			.48	.05				2.85				
Irwin.....	Youghiogheny.....	.43	.28			.11					.08	.01			.18	T.	.03	T.			T.		.51	.01	T.			.32					1.94				
Johnstown.....	Conemaugh.....	.30	.37		T.	.16					.22	.07			T.	.52	.16	.32	.14	.01		.05		.42		.03		.01	.15	.07			3.00				
Ketner.....	Allegheny.....	.15	.27			.23	.11				.11	.04			.48	.16	.15	.04	.05	.02			.09	.13	.01			.21	.02				2.23				
Linesville||	Beaver.....	.18	.88	.03		.43	.17	T.			.09	.07			.23	.06	.03	.15	.68	.04	.02		.12	.07	.04	.05		.33		.02			3.61				
Lock No. 4|||	Monongahela.....	.38	.31			.02	.03				.03	.05			.28	.05	.20	.04	.02		.01		T.	.52	T.	T.		.16	.05				2.15				
Lycippus.....	Conemaugh.....	.10	.51			.10					.18				.52	.18	.14	.08		T.			.27	.06				.35					2.45				
Mosgrove|||	Allegheny.....															.07	.02	T.	.03	T.	.05	.26	T.									1.0					
New Castle|||	Beaver.....	.53			.10					.07	.09				.48		.07	.02	T.	.03	T.	.05	.26	T.				.32					2.15				
North Shenango|||	Beaver.....	.24	.74			.43	.07								.01	.45	.07	.15										.37	T.				2.55				
Parkers Landing|||	Allegheny.....	.16	.38	.02		.35	T.				T.	.24			.47	.10	.22	T.	.20	.05	.05		.06	.30	T.	T.		.20	.04				2.8				
Pennline|||	Beaver.....	.18	.77	.03		.31	.17				.05	.19	T.		.29	T.	.03	.09	.33	.03			.11	.11	.05	.03	.01	.37	.01	T.			3.14				
Pittsburgh***	Ohio.....	.49	.06		T.	.06					.14	T.			.32	.06	.03	T.	.03	.02			.38				.12	.23	T.				1.9				
Ridgway.....	do.....	.17									.45				.59	.25							.27						.07				1.8				
Saegertown.....	do.....																																				
Saltsburg|||	Conemaugh.....	.18	.58	.02		.03	.10				T.	.14			.43	.01	.07	.04	.05		.05		T.	.38	.03	.02		.29	.09	T.			2.5				
Shanksville.....	Conemaugh.....																																				
Sharon|||	Beaver.....	.18	.40	T.		.12	T.					.20			.31	.07	.03	.02	.08	T.	.02		.05	.07	T.	T.		.30	T.	T.			1.8				
Somerset.....	Youghiogheny.....	.16	.31			.20					.30	.15			.20	.15	.25	.22	.05			.60			.08	.05		.12					2.8				
Springdale.....	Monongahela.....	.30	.45	.01		.05	.07				.08	.06			.25	.03	.04	T.	T.		T.			.46				.39	.12				2.3				
Summit|||	Beaver.....				T.	.53	.19	T.			T.	.28			.30	T.	.02	.11	.48	.05			.06		.11	.04		.29					2.4				
Turnerville|||	do.....																																				
Uniontown.....	Monongahela.....	.16	.30		T.	.10					.12				.50	.03	.16	T.	T.	.08			.32			T.		.15					1.9				
Vandergrift.....	Conemaugh.....	.45	.29			.22					.12				.49	.04	.03						.48	.02				.40					2.5				
Warren.....	Allegheny.....	.42	.06			.42					.10				.60		.14	.15	.09		.03		.12		.03	.02		.25		.04			2.4				
Westford|||	Beaver.....	.20	.76	.03		.29	.17				.18				.25	T.	T.	.02	.60	T.	T.		.05	.07	T.	T.		.20	T.			.05	2.8				
West Newton|||	Youghiogheny.....	.32	.45			.03	T.				T.	.06			.20	.02	.19	.03	T.					.47				.16					1.9				
Lake Drainage.																																					
Erie***	Lake Erie.....	.62	T.	T.	.16	.30	T.				.25	T.			T.	.09	.12	.18	.04	.07	.04	.01	.02	.03	T.	.04	T.	.02	.12	.01	T.	T.		2.1			
West Bingham.....	Genesee.....		.10			T.	.05				.05	.10			T.	.62	.15	T.	.15	.10														1.8			

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

APR 30 1921

CLIMATOLOGICAL DATA

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXV.

ANNUAL SUMMARY, 1920.

No. 13.

GENERAL SUMMARY.

The year as a whole was favorable and generally pleasant. The chief disagreeable features were an intensely cold January and a humid and oppressive August. The autumnal season was exceptionally fine. The crop season proved to be unusually good, although a late spring was more or less discouraging at the start. Corn, oats, and truck crops were backward during the early part of the season, but otherwise were generally healthy. The cool weather was favorable for the winter grains which filled well and gave better returns than at first seemed possible. Frequent summer rains, with ample heat, stimulated the growth of other crops later in the season, while a mild autumn allowed them to mature under the most favorable conditions. Corn was better than an average crop, while hay and fodder crops were good. Vegetables of all kinds were the best in both yield and quality for many years. Late vegetables were being gathered and marketed up into the early part of November. Fruit was generally good, and the apple crop was especially large and fine.

THE WEATHER BY MONTHS.

JANUARY.—The month as a whole was cold, stormy, dark, and disagreeable. The weather was very unfavorable for outdoor work of all kinds. The highways were in poor condition a large part of the time, and motor trucking was difficult. The weather was so severe that it was necessary to keep stock housed most of the time.

FEBRUARY.—The conditions were very changeable, and there was an unusual amount of blustery and disagreeable weather. The most severe storm of the winter occurred from the 4th to the 6th, inclusive. In the southeastern counties there was a heavy fall of hard snow and sleet, that delayed trains and completely blocked motor traffic for a week or more.

MARCH.—The first half of the month was cold and disagreeable and then changed in a few days and after the 20th it was warm and pleasant. The chief storm of the month began on the 4th and ended on the 6th. This caused moderately heavy rainfall, changing to snow on the 5th, with from 5 to 10 inches over the eastern half of the State.

APRIL.—The month as a whole was moderately cool and wet. There was an average of 16 days with rain, but the rainfall was generally light. The soil became thoroughly saturated and too wet to plow or work except on well drained fields, so the progress of farm work was slow. This condition was favorable for the winter grains, which improved considerably. Rye wintered in better condition than wheat, which was more or less spotted. Pastures and meadows wintered well and the grafs came up an even stand.

MAY.—State averages showed a marked deficiency in both temperature and rainfall, but the excess of moisture in the soil delayed planting operations during the first half of the month. Frosts occurred in many places from the 3d to the 6th, but did little damage except to chill the soil and check the growth of vegetation. After the first week the weather was more favorable for farm work and for crop growth, and at the end of the month the crops were in generally good condition and growing well.

JUNE.—This was the first seasonable and wholly favorable month of the year. Crop conditions improved, rapidly and by the end of the month the general outlook was promising. Wheat filled well, corn was uneven in size, but healthy, potatoes were exceptionally good, and berries of all kinds were plentiful. Hailstorms did some damage to crops, but not more than is usual for the month of June. Apples and peaches were falling from the trees in some sections, but the general outlook was good, especially for apples.

JULY.—The weather was favorable for outdoor work and for crop growth. The rainfall was well distributed and generally ample. The temperatures were moderately low. Wheat and rye were harvested under favorable conditions, and corn made good progress. There was about the usual number of severe local storms.

AUGUST.—Seasonable temperatures and frequent rains were very favorable for all kinds of vegetation. Corn made a wonderful improvement, while vegetables and truck of all kinds glutted the markets. The humid atmosphere made even normal temperatures oppressive, and the conditions were not pleasant.

SEPTEMBER.—The month was unusually fine and pleasant. Most of the rainfall occurred on three dates. Crops matured under favorable conditions. Late hay was cured with slight loss and was a good crop. Corn was mostly beyond frost danger by the middle of the month and was an excellent crop.

OCTOBER.—There was much fair weather until near the close of the month, and there was no severe freezing except in the northern counties. A large crop of fall and winter apples was gathered. Late truck was plentiful throughout the month. The rains near the close of the month were timely and were of great benefit to pastures and late feed.

NOVEMBER.—The first half of the month was fair and pleasant, followed by much cloudy and rainy weather in the last half. The first severe freezing in the southeastern counties occurred on the 12th, when late vegetables of all kinds were killed. The light rainfall of October and the first half of November allowed the top soil to become moderately dry and the winter grains rooted deeply. The rains that followed put them in fine condition for the winter.

DECEMBER.—The month as a whole was mild and pleasant. The cold periods were of short duration and much of the rain fell at night. The snowfall was light and did not remain long on the ground. Frost did not penetrate the soil deeply and the winter grains remained green in most places. There were no severe storms.

Climatological Data for the Year 1920.

STATION.	Counties.	Elevation, feet.	Temperature (degrees Fahrenheit).						Precipitation (inches).						Total snowfall (unmelted).	Number days with .01 or more.	Sky.			Prevailing direction of wind.
			Length of record, years.	Annual mean.	Highest.	Date.	Lowest.	Date.	Length of record, years.	Total for the year.	Greatest monthly.	Month.	Least monthly.	Month.			Number clear days.	Number partly cloudy days.	Number cloudy days.	
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	24	.....	88	June 11†	-3	Jan. 3	33	.....	.....	.....	.....	.....	.....	.....	71	232	63	w
Bethlehem.....	Northampton.....	295	21	52.1	94	do. 10†	-6	Feb. 1	36	.....	.....	.....	.....	.....	.....	.....	116	194	46	w nw.
Carlisle.....	Cumberland.....	467	54	50.6	96	do. 29	-2	Jan. 19	32	44.85	6.87	Aug. 0.66	Oct. 43.3	60.0	116	194	55	117	.....	w.
Catawissa.....	Columbia.....	520	24	50.0	96	do. 11	-6	Jan. 1	24	44.47	5.60	do. 1.77	May 43.3	43.3	131	194	55	117	.....	w.
Clearfield.....	Clearfield.....	1,120	11	49.1	94	do. 1	-6	Jan. 19	11	41.66	7.16	June 0.91	Feb. 87.0	87.0	148	.....	.....	.....	.....	w.
Coatesville.....	Chester.....	380	33	52.0	96	do. 11†	-2	do. 19†	33	47.23	5.93	Aug. 0.98	Oct. 37.6	37.6	131	127	142	97	.....	w.
Colebrook.....	Lebanon.....	.....	5	50.7	93	do. 11	-3	Feb. 1	11	44.19	5.95	June 0.65	do. 28.4	28.4	145	170	81	115	.....	w.
Emporium.....	Cameron.....	1,050	33	45.7	92	Aug. 17	-14	Jan. 4†	33	37.41	5.16	Sept. 0.70	Feb. 40.8	40.8	108	122	114	130	.....	w.
Freeland.....	Luzerne.....	1,633	1	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
George School.....	Bucks.....	190	14	51.2	93	June 11†	-4	Feb. 1	14	47.17	7.54	Aug. 1.75	Oct. 19.4	19.4	129	199	69	96	.....	w.
Gettysburg.....	Adams.....	600	45	52.4	98	do. 11†	-1	Jan. 19	47	45.70	7.38	do. 0.55	do. 78.0	78.0	125	153	118	95	.....	w.
Gordon.....	Schuylkill.....	840	17	47.1	89	do. 11†	-9	Jan. 1	17	53.29	6.92	July 2.36	do. 78.0	78.0	131	173	68	125	.....	w.
Hamburg.....	Berks.....	380	27	.....	.....	.....	.....	.....	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hanover.....	York.....	600	17	52.4	96	June 11	3	Jan. 19†	17	37.65	5.27	Aug. 0.60	Oct. 35.4	35.4	123	102	107	157	.....	w.
Harrisburg.....	Dauphin.....	361	33	51.7	93	do. 29	-1	Feb. 1	51	44.34	8.84	do. 0.52	do. 35.4	35.4	123	102	107	157	.....	w.
Holtwood.....	Lancaster.....	1	1	53.7	99	do. 30	5	Jan. 3	5	36.57	8.83	do. 1.21	do. 14.8	14.8	102	172	90	104	.....	.....
Huntingdon.....	Huntingdon.....	650	33	50.1	94	do. 11	-6	do. 4	33	44.72	6.03	Sept. 0.93	do. 45.8	45.8	138	149	88	129	.....	w.
Kennett Square.....	Chester.....	340	27	.....	.....	.....	.....	.....	48	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lancaster.....	Lancaster.....	255	18	51.9	96	do. 29	0	Feb. 1	33	41.88	9.29	Aug. 1.00	Oct. 27.0	27.0	108	156	105	85	.....	w.
Lawrenceville.....	Tioga.....	1,000	23	47.0	93	do. 29	-19	Jan. 20	23	29.64	6.35	July 0.85	Feb. 50.0	50.0	87	144	97	121	.....	w.
Lebanon.....	Lebanon.....	469	32	51.2	96	do. 11	-4	Feb. 1	80	47.53	6.60	Aug. 0.69	Oct. 35.1	35.1	120	155	109	72	.....	w.
Lewisburg.....	Union.....	450	45	.....	96	do. 29	-5	do. 1†	46	43.95	6.26	Sept. 1.25	do. 53.0	53.0	137	185	87	84	.....	w.
Lock Haven.....	Clinton.....	560	33	48.6	96	do. 11	-6	Jan. 5	34	41.51	5.96	July 1.51	do. 53.0	53.0	144	83	187	96	.....	w.
Lykens.....	Dauphin.....	680	6	49.4	94	do. 11†	-8	Feb. 1	6	47.08	7.13	Sept. 1.14	do. 39.9	39.9	143	166	102	98	.....	nw
Mauch Chunk.....	Carbon.....	600	31	49.4	95	do. 29	-8	do. 1	31	48.62	7.24	do. 1.14	do. 37.0	37.0	127	154	100	112	.....	w.
Mifflintown.....	Juniata.....	445	17	48.7	90	do. 11†	-1	do. 1†	17	44.68	7.79	Aug. 0.88	do. 37.0	37.0	144	143	75	148	.....	nw
Milford.....	Pike.....	500	18	46.3	90	do. 11	-19	do. 1	18	48.56	10.70	July 1.10	Jan. 43.0	43.0	69	178	141	47	.....	w.
Montrose.....	Susquehanna.....	1,658	18	45.7	89	do. 29	-20	Jan. 31†	17	45.43	8.20	do. 1.50	do. 68.0	68.0	108	170	74	122	.....	w.
Mount Pocono.....	Monroe.....	1,720	19	43.2	79	July 14†	-15	Feb. 1	18	56.70	10.30	do. 1.36	May 52.3	52.3	136	144	80	142	.....	nw
Muncy Valley.....	Sullivan.....	1,045	9	47.6	92	June 11	-15	do. 27	9	47.57	7.14	Aug. 1.69	do. 34.9	34.9	107	139	93	134	.....	.....
Narberth.....	Montgomery.....	300	1	52.1	93	do. 29	0	do. 1	1	49.97	7.18	do. 1.52	Oct. 24.8	24.8	.....	132	88	137	.....	sw.
Neshaminy Falls.....	Bucks.....	60	19	51.1	94	do. 29†	-6	Jan. 19	32	49.97	8.73	do. 2.36	Jan. 16.9	16.9	129	193	58	115	.....	w.
Palmerton.....	Carbon.....	398	2	49.4	94	do. 29	-8	Feb. 1	4	40.28	7.78	July 1.04	Oct. 31.1	31.1	114	159	100	107	.....	sw
Philadelphia (a).....	Philadelphia.....	117	50	54.4	95	do. 29	2	do. 1	50	46.16	7.31	Aug. 0.64	do. 17.4	17.4	132	114	105	147	.....	nw
Philadelphia (d).....	Philadelphia.....	12	5	53.6	94	do. 29	2	do. 1	5	47.71	7.38	June 1.86	do. 18.9	18.9	.....	.....	.....	.....	.....	.....
Phoenixville.....	Chester.....	100	10	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Quakertown.....	Bucks.....	496	34	49.6	95	do. 29	-7	Feb. 1	36	46.60	6.74	Aug. 1.81	Oct. 35.2	35.2	134	149	115	102	.....	nw
Reading.....	Berks.....	325	43	52.2	95	do. 11	-2	do. 1	51	40.70	5.10	Apr. 0.82	do. 25.1	25.1	130	115	78	173	.....	nw
Sadsburyville.....	Chester.....	649	5	52.5	94	do. 29	-1	do. 1	10	43.73	5.36	Mar. 0.82	do. 38.1	38.1	130	121	126	119	.....	w.
Scranton.....	Lackawanna.....	805	25	48.9	91	do. 29	-6	Jan. 31	26	42.77	5.42	July 2.02	do. 58.8	58.8	146	66	135	165	.....	sw
Selinsgrove.....	Snyder.....	455	31	.....	95	do. 11†	-4	do. 4	32	50.24	6.03	Aug. 1.49	do. 75.4	75.4	123	.....	.....	.....	.....	.....
Shawmont.....	Philadelphia.....	51	4	53.4	94	do. 29	0	Feb. 1	25	42.94	7.33	do. 0.64	do. 50.3	50.3	136	145	136	85	.....	nw
State College.....	Center.....	1,217	33	47.0	85	do. 1†	-4	do. 1	36	42.45	5.95	Apr. 0.87	do. 50.3	50.3	136	145	136	85	.....	w.
Towanda.....	Bradford.....	754	26	47.0	92	do. 29	-14	do. 1	26	33.78	5.83	July 1.30	Feb. 47.4	47.4	139	115	115	136	.....	nw
Wellsboro.....	Tioga.....	1,419	41	44.2	89	do. 1†	-21	Jan. 20	56	29.75	5.31	Sept. 0.77	do. 47.9	47.9	130	225	68	73	.....	sw
West Chester.....	Chester.....	455	66	.....	.....	.....	.....	.....	88	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Williamsport.....	Lycoming.....	521	31	50.1	96	June 11	-5	Jan. 19†	34	42.82	7.76	Aug. 1.34	Oct. 36.5	36.5	136	162	68	136	.....	se.
York.....	York.....	400	21	51.0	95	do. 11	-5	do. 19	33	38.69	7.12	do. 0.51	do. 22.0	22.0	114	152	98	116	.....	n.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	7	52.0	92	do. 11	-3	Jan. 5	28	32.21	6.65	June 1.52	Feb. 33.7	33.7	144	128	53	185	.....	sw
Bradford.....	McKean.....	1,427	4	46.1	89	do. 1	-15	do. 22	6	36.10	4.98	do. 1.46	do. 71.1	71.1	169	125	109	130	.....	.....
Bradys Bend.....	Armstrong.....	930	3	46.1	89	do. 11	-13	do. 4	3	40.15	6.51	do. 1.39	Feb. 47.3	47.3	133	148	92	126	.....	.....
Brookville.....	Jefferson.....	1,173	10	47.1	89	do. 11	-20	do. 4†	30	.....	5.97	do. 1.55	Oct. 40.4	40.4	.....	191	103	60	.....	.....
Claysville.....	Washington.....	1,150	17	51.3	91	do. 10†	-5	do. 5	17	34.38	7.36	do. 1.53	Dec. 23.2	23.2	111	142	114	110	.....	w.
Derry.....	Westmoreland.....	1,172	24	49.4	91	May 30	-3	do. 3	24	42.84	7.33	do. 1.15	Oct. 31.7	31.7	131	179	82	105	.....	w.
Ebensburg.....	Cambria.....	2,000	3	45.3	85	June 11	-7	do. 4†	3	42.64	7.23	do. 1.33	do. 34.0	34.0	133	173	110	83	.....	w.
Elk Lick.....	Somerset.....	2,200	4	46.7	86	do. 1†	-6	do. 4	4	42.26	6.94	do. 0.78	do. 54.0	54.0	142	142	105	119	.....	w.
Franklin.....	Venango.....	1,000	27	47.4	91	do. 10	-9	Feb. 20	48	35.90	6.51	do. 1.31	Feb. 27.0	27.0	138	159	80	127	.....	nw
Greensburg.....	Westmoreland.....	1,150	3	50.3	89	May 31†	-2	Jan. 4	13	40.97	6.95	do. 1.60	Oct. 44.1	44.1	163	1				

Monthly and Annual Precipitation for the Year 1920, with Departures from the Normal.

STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
ALLENTOWN.	2.45	.....	3.59	.....	1.06	-2.62	5.51	.....	2.48	.....	3.61	.....	4.05	.....	4.07	.....	3.16	.....	1.65	.....	3.87	.....	4.38	.....	.....	.....
Bethlehem.	2.58	-1.03	.....	.....	1.06	-2.62	4.53	+1.37	2.35	-1.39	2.84	-1.40	5.63	+1.26	3.46	-0.84	3.59	+0.17	2.06	-1.18	3.48	+0.43	4.32	+0.81	.....	.....
Bustleton.	.....	.....	.....	.....	3.11	.....	4.10	.....	3.57	.....	5.57	.....	5.36	.....	8.36	.....	2.68	.....	1.27	.....	3.33	.....	6.02	.....	.....	.....
Coatesville.	2.68	-1.33	4.13	0.00	5.50	+1.21	4.71	+1.09	2.87	-1.21	4.42	+0.38	4.64	-0.25	5.93	+1.56	3.56	-0.42	0.98	-2.64	3.42	+0.27	4.39	+0.14	47.23	-1.20
Doylestown.	2.34	-1.37	3.07	-0.84	2.66	-1.43	4.95	+0.97	2.35	-1.72	3.75	-0.25	5.14	+0.49	6.17	+0.69	2.39	-1.63	1.60	-2.49	3.30	+0.03	4.51	+0.47	42.23	-3.08
Freeland.	.....	.....	.....	.....	9.70	.....	11.34	.....	2.68	.....	5.70	.....	6.14	.....	4.69	.....	6.02	.....	3.16	.....	4.96	.....	5.17	.....	.....	.....
George School.	5.35	+2.50	3.26	+0.19	3.58	+0.25	3.20	-0.44	3.05	-0.49	3.47	+0.31	3.66	-0.16	7.54	+3.16	3.57	+0.59	1.75	-1.50	3.52	+0.96	5.22	+1.43	47.17	+6.80
Gouldsboro.	3.99	.....	7.19	.....	4.81	.....	5.33	.....	3.17	.....	4.17	.....	8.30	.....	6.14	.....	5.49	.....	2.92	.....	4.10	.....	3.08	.....	58.70	.....
Graterford.	2.51	.....	2.35	.....	4.01	.....	5.76	.....	3.01	.....	3.68	.....	5.40	.....	4.13	.....	1.23	.....	0.76	.....	3.02	.....	3.41	.....	38.66	.....
Hamburg.	3.17	-0.62	2.77	-0.67	4.01	-0.11	3.71	-0.62	1.77	-2.84	2.86	-1.34	6.55	+1.56	5.05	-0.28	5.06	+0.81	3.03	-1.03	5.31	+2.61	.....	.....	.....	.....
Honesdale.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kennett Square.	3.06	-0.47	2.54	-1.15	4.76	+1.03	.....	.....	3.23	-1.15	5.05	+0.73	4.39	+0.20	6.25	+1.29	6.16	+2.06	1.10	-2.34	3.61	+0.28	4.19	+0.45	.....	.....
Laurel.	1.36	-2.29	1.75	-1.37	3.20	-0.28	3.56	-0.11	1.92	-1.30	3.01	-1.17	4.20	-0.24	.....	.....	4.85	+1.01	2.03	-2.55	2.46	+0.37	2.52	-1.42	.....	.....
Marcus Hook.	2.59	.....	1.54	.....	2.25	.....	3.96	.....	2.13	.....	4.61	.....	4.17	.....	2.45	.....	4.31	.....	1.24	.....	4.64	.....	4.35	.....	38.24	.....
Mauch Chunk.	2.16	-1.70	3.50	-0.43	6.00	+1.61	4.47	+0.54	1.81	-2.24	3.59	-0.61	5.10	+0.07	4.58	-0.42	7.21	+3.44	1.14	-2.70	3.92	+0.68	5.11	+0.83	48.62	-0.93
Media.	4.93	.....	2.30	.....	4.14	.....	5.56	.....	2.11	.....	6.33	.....	7.13	.....	8.69	.....	2.95	.....	.....	.....	.....	.....	.....	.....	.....	.....
Millford.	1.10	-2.03	2.00	-1.03	3.30	-0.19	4.45	+1.13	1.90	-1.13	5.60	+1.81	10.70	+6.82	3.31	-0.96	6.95	+3.30	2.42	-1.61	2.59	+0.17	4.34	+0.80	48.56	+6.18
Mount Pocono.	2.23	-1.04	2.87	-0.01	3.89	+0.22	5.02	+0.86	1.36	-2.30	3.02	-1.84	10.30	+5.66	3.11	-1.27	9.40	+4.61	4.25	-0.73	4.61	+2.07	6.62	+2.85	56.70	+9.07
Narberth.	2.68	.....	3.69	.....	4.08	.....	4.51	.....	3.50	.....	5.47	.....	4.76	.....	7.18	.....	2.91	.....	1.52	.....	4.33	.....	5.34	.....	49.97	.....
Neshaminy Falls.	2.36	.....	3.87	.....	2.53	.....	3.68	.....	3.64	.....	5.46	.....	2.86	.....	8.73	.....	5.30	.....	2.36	.....	3.57	.....	5.61	.....	49.97	.....
Palmerton.	1.25	.....	1.54	.....	3.53	.....	3.40	.....	1.97	.....	3.43	.....	7.78	.....	2.01	.....	6.76	.....	1.04	.....	3.09	.....	4.48	.....	40.25	.....
Philadelphia (a).	2.71	-0.57	3.67	+0.50	3.35	-0.15	3.92	+0.55	2.15	-1.55	6.76	+3.12	3.52	-0.54	7.31	+2.88	3.42	-0.06	0.64	-2.57	4.05	+0.82	4.66	+1.22	46.16	+3.65
Philadelphia (d).	2.71	.....	3.36	.....	3.19	.....	3.59	.....	3.16	.....	7.38	.....	3.62	.....	7.37	.....	2.00	.....	1.86	.....	4.03	.....	4.86	.....	47.71	.....
Phoenixville.	.....	.....	3.22	.....	3.59	.....	4.23	.....	2.54	.....	3.06	.....	4.21	.....	5.28	.....	1.51	.....	1.07	.....	3.88	.....	.....	.....	.....	.....
Pottstown.	2.05	-1.45	3.30	-0.26	5.11	+1.30	4.07	+0.87	2.70	-1.78	2.45	-1.46	3.97	-1.45	4.24	+0.35	2.40	-0.92	1.38	-1.78	4.04	+0.88	3.65	-0.05	39.36	-5.75
Pottsville.	2.41	-1.58	4.59	+1.04	4.01	-0.07	5.04	+1.41	1.75	-2.69	2.82	-1.47	7.74	+2.76	4.14	-1.21	7.13	+3.27	0.96	-3.09	4.25	+1.04	4.74	+0.69	49.58	+0.10
Quakertown.	2.50	-1.00	3.32	+0.15	3.41	-0.29	5.77	+1.58	2.58	-1.49	3.06	-0.63	4.81	+0.08	6.74	+2.54	2.85	-0.84	1.81	-1.60	4.35	+1.27	4.80	+1.27	46.60	+2.04
Reading.	2.74	-0.82	3.03	-0.56	4.51	+0.89	5.10	+1.78	1.39	-2.43	3.39	-0.12	3.67	-0.62	4.34	+0.15	3.83	+0.55	0.82	-2.68	3.18	+0.31	4.75	+1.26	40.70	-2.25
Sadsburyville.	2.06	.....	3.12	.....	5.36	.....	4.98	.....	2.87	.....	4.66	.....	3.90	.....	4.74	.....	4.12	.....	0.82	.....	3.13	.....	3.92	.....	43.73	.....
Shawmont.	2.33	-0.96	2.67	-0.58	2.68	-0.98	3.28	+0.11	2.87	-0.54	5.31	+1.89	4.85	+0.59	7.33	+2.31	2.83	-0.50	0.64	-2.85	3.43	+0.70	4.66	+0.80	42.94	-0.01
Stroudsburg.	2.51	.....	3.13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
West Chester.	3.07	-0.68	3.30	-0.54	5.94	+2.00	5.59	+2.17	3.35	-1.08	5.85	+1.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
White Haven.	2.30	-0.54	3.00	-0.16	3.60	+0.46	5.75	+1.61	2.10	-1.78	4.08	-0.24	3.48	-1.34	5.18	+0.96	5.46	+2.94	1.13	-2.46	4.18	+1.29	4.08	+0.56	44.34	+2.62
Altoona.	2.63	+0.10	2.05	-0.08	1.93	-0.84	3.39	+3.61	1.65	-2.32	5.34	+1.47	3.51	+0.29	.....	.....	5.02	+2.25	1.07	-1.37	4.11	+2.30	2.81	+0.44	.....	.....
Ansonia.	.....	.....	1.08	-0.99	1.85	-0.40	3.11	-0.65	1.47	-2.26	3.09	-0.97	5.24	+2.20	2.27	-1.36	2.69	-0.70	2.12	-1.12	2.63	+1.15	2.16	+0.22	.....	.....
Austin.	2.17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bellefonte.	2.14	-0.79	3.34	+0.84	3.30	-0.55	4.23	+0.02	1.69	-2.01	6.50	+1.50	3.11	-1.08	5.52	+1.12	4.13	+0.75	1.02	-2.12	4.71	+2.83	2.33	-0.64	42.02	+0.17
Bloomsburg.	2.90	.....	2.75	.....	2.17	.....	5.02	.....	1.45	.....	4.10	.....	3.96	.....	5.68	.....	5.12	.....	1.30	.....	5.30	.....	4.25	.....	44.00	.....
Carlisle.	2.51	-0.63	5.00	+2.07	3.24	-0.32	4.81	+1.48	2.17	-1.67	2.48	-1.43	4.11	+0.32	6.87	+2.11	3.43	0.25	0.66	-2.66	5.06	+1.98	4.51	+0.57	44.85	+2.57
Catawissa.	2.50	-0.87	3.00	+0.30	3.44	+0.43	4.11	+0.68	1.77	-1.90	4.96	+1.04	4.35	+0.64	5.60	+1.54	4.51	+1.09	1.77	-1.30	4.56	+2.00	3.90	+0.94	44.47	+4.59
Center Hall.	1.24	-1.42	1.78	-0.57	2.97	-0.36	4.17	+1.02	1.64	-2.03	.....	.....	2.23	-0.76	.....	.....	.....	.....	0.63	-2.45	2.33	+0.32	.....	.....	.....	.....
Clearfield.	1.66	-2.61	0.91	-2.01	1.55	-2.31	4.90	+1.51	1.69	-3.01	7.16	+2.17	4.53	+0.99	4.47	-0.37	5.72	+2.70	1.06	-2.30	5.12	+3.25	2.89	-0.25	41.66	-2.29
Colebrook.	1.99	.....	3.91	.....	3.54	.....	5.32	.....	2.99	.....	5.95	.....	3.65	.....	5.67	.....	3.15	.....	0.65	.....	3.41	.....	3.96	.....	44.19	.....
Driftwood.	2.06	.....	0.63	.....	3.61	.....	2.75	.....	0.60	.....	2.40	.....	2.13	.....	2.17	.....	3.98	.....	1.00	.....	.....	.....	2.31	.....	.....	.....
Emporium.	2.92	-0.68	0.70	-2.35	3.69	-0.05	3.47	+0.12	1.54	-2.90	4.31	-0.18	2.83	-0.61	4.39	+0.42	5.16	+1.74	1.23	-2.06	3.52	+0.86	2.65	-0.68	37.41	-6.37
Ephrata.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gettysburg.	2.24	-0.92	3.66	+0.86	2.64	-0.52	4.89	+1.32	2.75	-1.18	3.11	-0.85	2.92	-0.64	7.38	+3.40	6.28	+2.95	0.55	-2.67	4.17	+1.59	5.11	+1.79	45.70	+5.13
Girardville.	1.98	-2.41	2.68	-1.36	3.55	-0.87	3.77	-0.39	1.71	-2.96	3.69	-1.08	5.68	+0.10	4.03	-1.28	4.97	+0.61	1.76	-2.51	4.03	+0.60	5.10	+0.62	42.95	-10.93
Gordon.	2.58	-1.62	4.79	+1.36	4.59	+0.33	4.15	-0.68	2.51	-1.29	3.02	-1.31	6.92	+1.84	4.32	-0.55	6.43	+1.95	2.36	-2.03	4.85	+2.33	6.77	+2.58	53.29	+2.91
Hanover.	2.51	-0.59	2.96	+0.23	1.47	-1.74	5.26	+2.08	2.35	-0.81	2.99	-0.73	3.43	-0.87	5.27	+0.50	3.47	+0.62	0.60	-2.29	3.62	+1.97	3.72	+0.28	37.65	-1.62
Harrisburg.	2.10	-1.00	4.23	+1.43	2.50	-0.55	4.37	+1.27	1.34	-2.44	3.68	-0.23	4.02	+0.29	8.84	+4.75	5.53	+2.19	0.52	-2.51	3.27	+1.07	3.94	+0.79	44.34	+5.06
Holtwood.	1.39	.....	1.59	.....	2.39	.....	3.73	.....	2.76	.....	3.26	.....	2.68	.....	8.83	.....	2.67	.....	1.21	.....	4.11	.....	1.95	.....	36.57	

Monthly and Annual Precipitation for the Year 1920, with Departures from the Normal.—Continued.

STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
Freeport.....	2.76	-1.16	2.06	-1.16	2.54	-1.14	4.42	+1.09	2.28	-1.57	5.63	+1.40	3.74	-0.48	2.76	-0.69	4.08	+1.21	3.37	-0.45	3.08	+0.23	2.18	-1.24	37.90	-4.16
Greensboro.....	1.73	-1.79	2.28	-0.76	2.45	-1.23	3.89	+0.44	2.32	-1.63	6.58	+1.80	4.40	-0.47	4.02	+0.61	3.14	+0.14	0.98	-1.93	2.34	+0.14	2.17	-0.93	36.80	-5.61
Greensburg.....	3.34	-0.61	2.97	+0.02	1.66	-1.37	4.69	+1.08	1.86	-1.97	6.95	+3.06	3.56	-0.20	4.06	+0.04	4.67	+1.41	1.60	-1.45	3.24	+1.56	2.37	-0.81	40.97	+0.76
Grove City.....	2.16	-1.61	1.81	-0.63	1.37	-1.79	3.76	-0.35	1.15	-2.70	5.01	+1.06	3.45	-0.99	2.45	-1.13	2.81	-0.32	1.54	-2.05	2.10	0.00	4.09	+1.27	31.70	-9.24
Herrs Island Dam.....	2.60	-0.45	1.66	-0.72	1.63	-1.87	4.09	+1.02	1.39	-1.43	6.04	+1.86	2.90	-0.57	3.17	-0.25	3.40	+1.04	1.89	-0.82	2.36	+0.59	2.11	-0.70	33.24	-2.30
Indiana.....	2.71	-1.36	2.85	-0.12	1.65	-2.42	5.24	+1.22	1.18	-3.09	7.15	+2.41	2.76	-1.69	3.91	-0.44	5.05	+1.16	1.44	-2.16	3.53	+0.93	2.89	-0.64	40.36	-6.20
Irwin.....	2.17	-0.95	1.98	-0.32	1.69	-1.99	4.43	+1.07	1.14	-2.11	6.36	+1.84	3.56	-0.62	3.37	-0.57	4.01	+1.22	1.68	-1.08	2.95	+0.79	1.96	-1.04	35.30	-3.76
Johnstown.....	3.49	-0.87	3.57	-0.22	2.83	-1.28	5.86	+1.89	1.94	-2.68	6.26	+1.06	4.32	-0.03	4.02	-0.47	3.86	+0.32	0.87	-2.10	4.27	+1.43	3.00	-0.67	44.29	-3.59
Ketner.....	2.67	.....	1.14	.....	2.18	.....	4.24	.....	1.22	.....	3.78	.....	3.04	.....	4.78	.....	4.06	.....	1.70	.....	3.26	.....	2.27	.....	35.34	.....
Lock No. 4.....	2.95	-0.28	2.24	-0.55	1.72	-1.66	3.62	+0.43	2.06	-1.63	7.94	+4.06	4.16	-0.16	4.31	-0.83	3.61	+0.79	1.70	-0.99	2.85	+0.51	2.15	-0.75	39.31	+0.60
Lycippus.....	5.06	+0.99	3.36	+0.31	1.54	-2.32	3.80	-0.01	2.02	-1.98	6.30	+1.91	6.22	+1.25	3.62	-0.43	4.65	+1.61	1.66	-1.26	3.20	+0.73	2.49	-1.22	43.92	-0.42
Mosgrove.....	2.15	.....	1.46	.....	1.45	.....	4.91	.....	2.61	.....	4.49	.....	3.74	.....	4.50	.....	3.34	.....	2.57	.....	.....	.....	.....	.....	.....	.....
New Castle.....	1.00	-2.00	1.51	-0.96	2.35	-0.40	5.20	+2.33	2.48	-0.76	6.28	+1.94	2.90	-1.36	2.50	-0.65	3.36	+0.21	1.47	-1.28	1.85	-0.27	2.12	-0.34	33.02	-3.54
Newell.....	2.54	.....	1.65	.....	1.05	.....	3.30	.....	2.04	.....	5.13	.....	3.75	.....	2.11	.....	3.17	.....	1.05	.....	2.23	.....	1.51	.....	29.53	.....
North Shenango.....	1.45	.....	0.72	.....	1.95	.....	3.34	.....	1.18	.....	5.69	.....	3.50	.....	2.61	.....	3.52	.....	2.79	.....	3.38	.....	2.53	.....	32.66	.....
Parkers Landing.....	1.63	-1.89	1.37	-1.80	2.69	-0.93	5.28	+1.76	2.49	-1.29	5.66	+1.28	2.05	-2.42	4.35	+0.25	1.68	-1.73	2.04	-0.81	2.19	-0.65	2.84	-0.37	42.87	-8.60
Pennline.....	1.85	.....	1.00	.....	1.73	.....	3.59	.....	1.28	.....	4.65	.....	2.73	.....	2.79	.....	3.05	.....	3.56	.....	3.28	.....	3.16	.....	32.67	.....
Pittsburgh.....	2.80	+0.08	1.62	-0.82	1.77	-1.20	4.42	+1.52	1.03	-2.31	6.74	+3.06	3.29	-0.54	2.53	-0.75	3.48	+0.70	1.48	-1.22	2.57	+0.16	1.94	-0.97	33.67	-2.43
Saegertown.....	2.00	-1.49	1.50	-1.59	2.14	-1.30	4.42	+1.17	1.12	-3.36	5.05	+0.75	4.09	-0.26	.....	.....	2.59	-1.01	3.10	-0.47	3.69	+0.41	.....	.....	.....	.....
Saltsburg.....	3.48	-0.40	2.55	-0.51	1.72	-1.59	4.86	+1.53	1.42	-1.99	6.54	+2.61	6.30	+2.55	3.75	+0.06	2.07	-1.37	2.38	-0.71	3.33	+1.34	2.51	-0.82	40.91	+0.70
Shanksville.....	2.64	.....	2.49	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.50	.....	3.56	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sharon.....	2.35	.....	0.74	.....	1.23	.....	3.98	.....	1.51	.....	4.84	.....	1.98	.....	2.80	.....	0.97	.....	1.94	.....	2.58	.....	1.85	.....	26.77	.....
Somerset.....	3.68	-1.10	5.23	+1.26	2.69	-1.76	6.56	+1.94	3.32	-1.70	8.04	+2.88	4.10	-0.32	8.03	+3.45	5.19	+1.53	1.80	-1.22	6.22	+2.96	2.84	-1.12	57.70	+6.80
Springdale.....	2.88	-0.99	1.80	-0.84	2.23	-1.34	4.43	+1.19	1.66	-1.86	3.89	+0.10	.....	.....	.....	.....	4.03	+0.81	2.65	-0.59	2.86	+1.09	2.31	-0.94	.....	.....
Summit.....	1.18	.....	0.85	.....	1.59	.....	3.88	.....	1.41	.....	5.58	.....	3.70	.....	2.98	.....	1.75	.....	3.72	.....	4.02	.....	2.46	.....	33.12	.....
Turnerville.....	0.99	.....	0.61	.....	3.45	.....	1.07	.....	5.49	.....	4.44	.....	4.71	.....	3.30	.....	1.51	.....	2.31	.....	3.16	.....	.....	.....	.....	.....
Uniontown.....	2.73	-1.18	3.30	+0.14	2.35	-1.70	4.88	+1.10	3.65	-0.44	7.52	+2.72	5.90	+0.85	5.78	+1.12	4.73	+1.58	1.12	-2.03	3.32	+0.28	1.92	-1.71	47.20	+0.73
Vandergrift.....	3.14	.....	1.84	.....	1.59	.....	4.39	.....	1.57	.....	6.21	.....	2.46	.....	4.06	.....	3.54	.....	2.81	.....	2.73	.....	2.54	.....	36.38	.....
Warren.....	1.98	-1.07	1.24	-1.47	1.43	-1.78	4.01	+0.53	2.18	-2.27	5.30	+0.99	3.51	-1.42	3.72	-0.36	2.63	-1.08	1.26	-2.19	2.17	-1.20	2.47	-0.67	31.90	-11.99
Westford.....	1.92	.....	0.87	.....	1.55	.....	3.67	.....	1.02	.....	5.30	.....	3.20	.....	3.64	.....	2.16	.....	2.70	.....	3.32	.....	2.87	.....	32.22	.....
West Newton.....	3.60	+0.07	3.07	-0.03	2.32	-1.38	3.84	+0.45	2.25	-1.31	8.37	+4.34	3.65	-0.82	3.24	-0.69	3.65	+1.04	1.32	-1.27	2.57	+0.34	1.93	-1.38	39.81	-0.64
POTOMAC BASIN.																										
Arendtsville.....	2.19	.....	4.21	.....	2.64	.....	5.62	.....	2.31	.....	3.18	.....	3.48	.....	7.02	.....	5.50	.....	0.50	.....	4.20	.....	4.43	.....	45.28	.....
LAKE BASIN.																										
Erie.....	1.73	-1.29	1.13	-1.63	1.33	-1.39	3.09	+0.69	1.04	-2.54	3.94	+0.46	3.84	+0.74	2.34	-1.03	1.75	-1.76	4.67	+0.86	3.72	+0.43	2.12	-0.76	30.70	-7.51
West Bingham.....	1.92	.....	0.85	.....	2.50	.....	2.89	.....	1.78	.....	2.54	.....	3.50	.....	2.52	.....	3.10	.....	1.29	.....	2.01	.....	1.37	.....	26.67	.....

Letters of alphabet denote number of days missing.

KILLING FROSTS OR FREEZING TEMPERATURE.

Stations.	Last in spring.	First in autumn.	Stations.	Last in spring.	First in autumn.
Altoona.....	May 15	Oct. 7	Lewisburg.....	May 16	Oct. 31
Arendtsville.....	do. 6	Nov. 1	Lock Haven.....	do. 16	do. 7
Beaver Dam.....	do. 16	do. 11	Lycippus.....	do. 15	do. 29
Bethlehem.....	Apr. 14	Oct. 3	Lykens.....	do. 16	do. 3
Bloersville.....	May 6	do. 7	Mauch Chunk.....	do. 6	Nov. 13
Bradford.....	do. 17	Nov. 6	Mifflintown.....	do. 16	Oct. 7
Brady's Bend.....	do. 17	Oct. 31	Millford.....	do. 17	do. 2
Brookville.....	do. 17	do. 2	Montrose.....	do. 16	do. 29
Bustleton.....	do. 6	Nov. 12	Mount Pocono.....	do. 16	do. 2
Carlisle.....	do. 16	Oct. 7	Muncy Valley.....	do. 16	do. 30
Catawissa.....	do. 16	do. 7	Narberth.....	do. 16	Nov. 12
Center Hall.....	do. 4	do. 7	Neshaminy.....	do. 6	Oct. 30
Claysville.....	do. 16	do. 7	New Castle.....	do. 15	do. 30
Clearfield.....	do. 16	do. 7	Palmerton.....	do. 5	do. 7
Coatesville.....	do. 3	do. 31	Philadelphia (a).....	Apr. 10	Nov. 13
Colebrook.....	Apr. 15	do. 31	Phoenixville.....	May 6	do. 1
Derry.....	May 16	do. 7	Pittsburgh.....	Apr. 25	do. 11
Ebensburg.....	do. 18	do. 7	Pottsville.....	Oct. 7	do. 7
Edinboro.....	do. 16	do. 7	Quakertown.....	May 16	Nov. 13
Elk Lick.....	do. 5	do. 3	Reading.....	Apr. 11	Nov. 13
Emporium.....	do. 17	do. 24	Sadsburyville.....	do. 15	do. 12
Erie.....	do. 16	Nov. 14	Saegertown.....	May 16	do. 7
Franklin.....	do. 16	do. 14	Scranton.....	Apr. 11	Nov. 11
George School.....	do. 6	do. 19	Selinsgrove.....	May 16	Oct. 7
Gettysburg.....	do. 2	do. 13	Sharon.....	do. 16	do. 1
Gordon.....	do. 17	Oct. 7	Shawmont.....	do. 16	Nov. 1
Greensburg.....	do. 15	do. 7	Somerset.....	do. 5	Oct. 7
Grove City.....	do. 14	do. 7	State College.....	do. 6	do. 3
Hamburg.....	do. 2	.....	Towanda.....	do. 16	do. 7
Hanover.....	do. 3	do. 7	Uniontown.....	do. 16	do. 30
Harrisburg.....	Apr. 10	Nov. 13	Vandergrift.....	do. 16	do. 10
Huntingdon.....	May 17	Oct. 7	Warren.....	do. 17	do. 6
Indiana.....	do. 15	do. 7	Weikert.....	do. 17	do. 13
Irwin.....	do. 16	do. 31	Wellsboro.....	do. 6	do. 3
Johnstown.....	do. 16	do. 3	West Bingham.....	June 7	do. 3
Kennett Square.....	do. 2	do. 31	West Chester.....	May 12	.....
Lancaster.....	do. 16	do. 31	Williamsport.....	do. 5	Nov. 13
Lawrenceville.....	do. 16	do. 7	York.....	do. 16	Oct. 31
Lebanon.....	do. 16	do. 6			

ANNUAL MEANS AND EXTREMES FOR THE STATE.

Year.	Temperature.			Precipitation.		
	Mean.	Highest.	Lowest.	Annual.	Greatest. total.	Least. total.
1888.....	47.9	100	-31	45.91	.....	.....
1889.....	49.8	96	-27	52.67	.....	.....
1890.....	50.5	101	-18	51.28	.....	.....
1891.....	50.6	100	-14	45.65	64.00	32.21
1892.....	49.3	103	-23	41.30	54.63	32.07
1893.....	48.7	102	-25	44.26	58.56	30.62
1894.....	51.3	103	-28	43.69	57.43	28.17
1895.....	49.4	104	-26	33.51	40.80	21.17
1896.....	50.5	101	-21	41.95	53.52	32.29
1897.....	50.0	103	-25	42.73	55.16	19.83
1898.....	51.3	107	-16	45.49	56.95	34.07
1899.....	50.0	101	-39	40.93	51.13	28.36
1900.....	51.5	104	-23	37.31	55.68	25.73
1901.....	49.4	107	-22	45.54	56.83	29.81
1902.....	49.6	100	-24	47.29	65.05	29.79
1903.....	49.6	99	-17	46.27	57.16	35.90
1904.....	47.5	99	-42	40.44	56.72	31.05
1905.....	49.4	99	-25	43.34	59.38	33.53
1906.....	50.8	99	-21	42.78	61.56	32.55
1907.....	48.5	98	-23	45.45	64.05	31.79
1908.....	50.9	104	-29	39.58	50.26	26.72
1909.....	50.2	100	-19	37.38	48.79	27.91
1910.....	49.8	99	-22	38.99	51.45	31.08
1911.....	51.1	105	-18	45.52	67.61	29.25
1912.....	49.0	100	-35	44.13	60.95	33.08
1913.....	51.7	102	-9	43.25	56.06	32.48
1914.....	49.3	101	-28	38.24	54.33	28.83
1915.....	50.1	99	-26	44.26	61.96	33.40
1916.....	49.6	103	-31	40.98	58.50	31.05
1917.....	47.5	105	-29	41.71	62.68	23.56
1918.....	49.2	108	-34	41.25	60.60	29.97
1919.....	51.2	104	-23	45.82	58.30	31.55
1920.....	49.4	99	-21	40.81	58.70	26.27

Monthly and Annual Mean Temperatures for the Year 1920, with Departures from the Normal.

STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.
Atlantic Drainage.																										
Altoona	20.4	-6.9	24.6	-1.2	38.6	+1.3	44.4	-3.8	56.2	-3.2	65.8	-0.4	67.8	-3.3	.....	.....	63.2	+0.5	58.1	+6.2	39.8	-0.6	31.2	+2.2	.....	.....
Arendtsville	24.1	.....	30.6	.....	.....	.....	46.2	.....	53.2	.....	59.4	.....	71.6	.....	71.6	.....	65.1	.....	58.3	.....	41.7	.....	34.2	.....	52.1	.....
Bethlehem	24.6	-5.3	29.4	-0.4	40.8	+1.2	49.6	-2.3	59.4	-3.6	69.6	-0.2	71.8	-2.9	72.5	-0.8	67.5	+1.3	61.2	+5.7	42.6	-1.4	35.8	+2.7	52.1	-0.5
Bustleton	.....	.....	.....	.....	40.8	.....	49.0	.....	57.8	.....	68.8	.....	72.4	.....	72.9	.....	67.0	.....	59.2	.....	43.0	.....	36.4	.....	50.0	.....
Carlisle	23.3	-4.6	27.3	-2.1	39.0	+1.5	48.2	-4.0	58.2	-2.0	69.2	-1.7	71.2	-3.6	71.9	-0.8	64.9	+0.2	58.0	+5.7	41.4	+0.7	34.6	+3.3	50.6	-0.6
Catawissa	20.4	-7.7	26.4	-2.7	39.2	+1.6	45.8	-5.5	58.0	-3.4	68.5	+0.8	71.0	-1.7	72.8	+2.5	64.8	+1.3	58.0	+4.4	40.8	-1.6	34.5	+2.9	50.0	-0.8
Center Hall	19.6	-5.8	24.4	-1.5	37.4	+1.6	44.0	-4.9	56.9	-2.9	.....	.....	.....	.....	.....	.....	.....	.....	56.2	+4.8	39.2	-0.7	33.0	+4.0	.....	.....
Clearfield	20.1	-6.7	26.2	-0.6	38.6	+2.5	44.8	-3.2	56.9	-3.4	67.6	+1.3	69.8	-1.3	70.4	0.0	64.4	+2.0	58.8	+7.0	40.0	-0.6	31.4	+3.0	49.1	0.0
Coatesville	24.0	-6.4	29.1	-0.8	40.1	+0.7	49.6	-1.2	58.9	-2.8	70.6	+0.7	73.4	-1.3	73.8	+4.1	68.3	+2.2	60.2	+5.9	41.8	-1.1	34.8	+1.8	52.0	+0.1
Colebrook	22.0	.....	27.6	.....	38.8	.....	47.6	.....	57.0	.....	67.5	.....	71.0	.....	71.6	.....	65.4	.....	57.6	.....	41.2	.....	41.4	.....	50.7	.....
Emporium	15.4	-10.4	21.8	-2.9	35.6	+0.6	41.8	-5.3	53.7	-5.0	63.7	-2.5	65.5	-4.7	66.6	-1.3	60.8	-0.6	54.6	+4.6	37.9	-1.3	31.2	+2.1	45.7	-0.2
Freeland	.....	.....	.....	.....	.....	.....	42.8	.....	56.6	.....	68.0	.....	69.8	.....	68.5	.....	61.5	.....	55.8	.....	34.6	.....	27.7	.....	.....	.....
George School	23.2	-7.6	28.3	-1.4	40.8	+1.6	49.2	-0.9	57.4	-3.6	68.8	+1.1	71.8	-1.8	71.9	+0.5	66.5	+1.6	58.6	+3.7	42.2	-0.4	35.9	+3.6	51.2	-0.3
Gettysburg	25.6	-3.4	29.8	-0.5	42.0	+2.8	50.1	-0.3	59.1	-2.2	70.1	+0.5	73.2	-0.8	73.4	+1.7	66.9	+1.9	60.1	+7.9	42.8	+1.5	36.0	+4.3	52.4	+1.1
Gordon	19.0	-7.4	24.0	-1.3	36.2	+0.3	44.6	-3.3	54.0	-4.5	66.1	+0.9	67.4	-2.8	69.2	+1.0	62.4	+0.6	54.6	+3.9	37.7	-1.3	30.1	+1.6	47.1	-1.0
Hamburg	20.5	-8.2	25.0	-3.8	38.4	0.0	46.4	-4.0	57.4	-4.3	67.2	-2.3	69.5	-4.0	68.8	-3.1	.....	.....	.....	.....	37.6	-4.6	.....	.....	.....	.....
Hanover	25.3	-7.6	29.2	-2.5	43.0	+1.4	49.4	-3.4	57.7	-6.2	70.0	-0.6	73.6	-1.8	73.3	-0.3	68.3	+1.1	59.8	+3.7	43.4	-0.8	35.6	+1.8	52.4	-1.3
Harrisburg	23.1	-6.8	28.2	-0.8	41.0	+1.9	48.2	-3.3	59.0	-3.1	69.8	-0.2	73.0	-1.7	72.4	-0.3	66.6	+0.6	59.8	+5.4	43.1	+0.1	36.2	+3.2	51.7	-0.4
Holtwood	24.2	.....	29.0	.....	40.4	.....	49.8	.....	62.6	.....	73.8	.....	77.8	.....	75.9	.....	69.8	.....	61.5	.....	42.8	.....	36.3	.....	53.7	.....
Huntingdon	21.8	-6.8	27.0	-1.4	39.8	+1.5	46.3	-3.3	57.5	-3.2	68.0	-0.2	69.8	-2.4	71.4	+0.7	65.0	+0.7	58.3	+5.8	42.2	+0.7	33.8	+2.3	50.1	-0.4
Kennett Square	24.2	-6.8	28.6	-1.8	40.8	+1.2	.....	.....	57.4	-3.9	68.0	-0.9	71.6	-2.3	72.0	+0.1	65.9	-0.3	58.9	+4.3	42.6	-0.6	36.1	+2.9	.....	.....
Lancaster	24.5	-5.1	29.2	-0.6	39.8	+1.8	49.9	-0.9	57.9	-3.1	69.2	-0.9	73.1	-0.3	73.3	+0.6	66.8	+2.3	59.8	+6.4	43.1	0.0	36.0	+2.6	51.9	+0.3
Lawrenceville	15.4	-9.2	21.8	-1.2	35.6	+1.6	43.8	-2.0	54.8	-2.7	65.7	+0.5	68.4	-1.8	68.3	+0.2	61.8	+0.5	56.5	+6.0	38.8	+0.1	32.5	+5.1	47.0	-0.2
Lebanon	19.4	-9.6	25.7	-3.0	40.2	+1.6	48.9	-1.6	58.3	-2.7	69.8	+0.5	72.3	-1.3	73.3	+1.3	67.7	+2.5	60.4	+7.2	43.2	+1.0	35.5	+3.6	51.2	-0.1
Lewisburg	20.5	-4.9	25.8	0.0	38.2	+2.9	46.6	-1.6	57.4	-1.1	68.2	+1.0	70.9	-0.6	71.8	+2.9	63.5	+1.5	57.3	+7.1	.....	.....	34.0	+5.0	.....	.....
Lock Haven	18.6	-8.8	25.6	-1.5	38.6	+0.8	44.7	-5.6	56.4	-5.5	66.7	-2.7	69.5	-3.8	70.0	-1.3	64.3	-0.4	57.3	+4.0	39.8	+2.0	32.0	+0.9	48.6	-2.2
Lykens	20.8	.....	26.4	.....	38.9	.....	46.4	.....	57.2	.....	67.0	.....	69.4	.....	71.2	.....	64.6	.....	57.3	.....	41.0	.....	33.0	.....	49.4	.....
Marcus Hook	26.0	.....	32.2	.....	40.4	.....	52.5	.....	61.6	.....	74.0	.....	77.1	.....	76.5	.....	70.6	.....	63.3	.....	46.0	.....	39.8	.....	55.0	.....
Mauch Chunk	20.7	-7.7	25.6	-1.4	37.2	+0.4	46.0	-2.3	57.6	-3.4	67.3	-0.5	70.1	-2.2	71.6	+1.3	65.2	+0.3	58.3	+6.0	40.0	-0.6	33.6	+3.1	49.4	-0.4
Media	20.0	.....	25.0	.....	37.2	.....	46.0	.....	57.6	.....	67.3	.....	70.1	.....	71.6	.....	65.2	.....	58.3	.....	40.0	.....	33.6	.....	49.4	.....
Mifflintown	21.4	-6.2	25.8	-0.9	37.3	-0.7	45.4	-4.4	55.5	-5.2	67.0	-0.8	69.8	-2.9	70.4	-0.2	62.2	-1.6	54.2	+1.8	41.2	+0.6	33.9	+3.7	48.7	-1.4
Milford	18.6	-6.4	23.2	-0.6	33.9	-0.9	44.8	-1.8	54.0	-3.5	63.4	-1.0	66.2	-4.0	67.4	-0.3	61.8	+0.4	54.5	+3.7	36.8	-1.4	31.0	+3.8	46.3	-1.0
Montrose	13.2	-9.3	17.9	-2.4	32.8	+1.7	42.8	-1.3	53.0	-2.0	66.9	+4.2	67.6	-0.6	69.0	+2.1	64.0	+3.9	56.4	+7.4	35.7	-1.2	28.8	+3.2	45.7	+0.5
Mount Pocono	14.1	-8.8	18.2	-2.5	33.7	+1.7	39.4	-3.6	51.0	-3.7	59.9	-1.7	61.4	-4.8	61.7	-2.5	58.1	0.0	56.2	+8.8	36.3	+0.5	29.0	+4.0	43.2	-1.1
Muncy Valley	17.3	.....	21.8	.....	36.1	.....	46.2	.....	56.0	.....	64.8	.....	67.5	.....	69.0	.....	62.8	.....	56.2	.....	39.8	.....	33.7	.....	47.6	.....
Narberth	24.3	.....	29.0	.....	41.0	.....	49.2	.....	58.2	.....	69.5	.....	73.6	.....	73.2	.....	67.3	.....	60.0	.....	43.0	.....	37.0	.....	52.1	.....
Neshaminy Falls	22.6	.....	27.0	.....	39.8	.....	48.0	.....	57.4	.....	68.8	.....	72.6	.....	73.3	.....	66.7	.....	58.1	.....	42.2	.....	36.3	.....	51.1	.....
Palmerton	20.6	.....	25.5	.....	37.5	.....	45.8	.....	57.8	.....	67.6	.....	70.4	.....	71.5	.....	64.6	.....	57.3	.....	40.2	.....	34.2	.....	49.4	.....
Philadelphia (a)	26.8	-5.9	31.4	-1.6	43.8	+3.4	51.4	-0.2	60.4	-2.8	71.2	-0.2	75.6	-0.9	74.2	-0.3	69.6	+1.5	62.4	+5.4	46.0	+0.6	39.8	+4.0	54.4	+0.3
Philadelphia (d)	25.6	.....	30.3	.....	42.0	.....	50.6	.....	59.6	.....	71.2	.....	75.0	.....	74.4	.....	69.4	.....	61.3	.....	44.9	.....	38.8	.....	53.6	.....
Phoenixville	.....	.....	30.4	.....	41.2	.....	50.6	.....	60.2	.....	71.3	.....	75.5	.....	75.2	.....	65.8	.....	59.4	.....	42.8	.....	35.5	.....	.....	.....
Quakertown	22.0	-5.0	26.2	-2.0	37.7	+1.4	47.1	-1.3	56.9	-2.7	67.8	-0.4	70.7	-1.8	71.5	+4.3	64.8	+1.2	56.6	+4.5	40.2	-0.8	34.0	+2.9	49.6	0.0
Reading	23.0	-6.9	28.6	-1.4	41.4	+2.0	48.8	-2.3	59.6	-2.3	70.0	-0.3	73.5	-1.4	73.2	-0.8	67.2	+1.6	60.3	+6.4	43.4	+0.7	36.9	+4.2	52.2	+0.1
Scranton	18.7	-8.5	24.8	-0.7	38.2	+2.0	45.4	-2.5	57.2	-2.3	66.9	+0.2	69.6	-2.5	70.8	+1.6	63.9	+0.9	57.5	+5.3	40.2	-0.4	33.6	+3.6	48.9	-0.3
Sadsburyville	23.7	.....	29.1	.....	41																					

COOPERATIVE AND RAINFALL OBSERVERS.

Stations.	Observers.	Stations.	Observers.	Stations.	Observers.
Allentown.....	John A. Frick.	Gettysburg.....	Col. E. B. Cope.	New Castle.....	New Castle Water Co.
Altoona.....	Lewis E. Biller.	Girardville.....	Henry J. Weller.	Newell.....	General Chemical Co.
Ansonia.....	Paul H. Mulford.	Gordon.....	Capt. J. G. Johnson.	Palmerton.....	Frank G. Breyer.
Arendtsville.....	R. C. Walton.	Gouldsboro.....	Gustav Holtz.	Parkers Landing.....	Henry Turk.
Austin.....	S. C. Bayless.	Graterford.....	C. K. Kulp.	Philadelphia.....	U. S. Weather Bureau.
Beaver Dam.....	U. S. Engineer.	Greensboro.....	James G. Kramer.	Philadelphia.....	Commandant, Navy
Beaver Falls.....	W. Edward Eakin.	Greenville.....	Westmoreland Water Co.	Navy Yard.....	Yard.
Bellefonte.....	Western Penitentiary.	Greenville.....	Water Supply Com.	Phoenixville.....	N. Springfield Water Co.
Bethlehem.....	Prof. C. H. Rominger.	Grove City.....	Prof. H. W. Harmon.	Pittsburgh.....	U. S. Weather Bureau.
Bloresville.....	A. G. Mountz.	Hamburg.....	State Sanatorium.	Pottstown.....	William A. Stephan.
Bradford.....	B. A. Wise, C. E.	Hanover.....	Miss Olive M. Ryder.	Pottsville.....	John H. Strauch.
Brady's Bend.....	E. R. Dewey.	Harrisburg.....	U. S. Weather Bureau.	Punkstutawney.....	Fred Warren.
Brookville.....	John Fawcett.	Hers Island Dam.....	U. S. Engineer.	Quakertown.....	John E. Benner.
Bustleton.....	Agr. Experiment Station.	Holtwood.....	H. W. Lowy, C. E.	Reading.....	U. S. Weather Bureau.
Carlisle.....	Clarence E. Miller.	Honesdale.....	George Stiles.	Renovo.....	H. L. Baird.
Catawissa.....	H. H. Yetter.	Huntingdon.....	Prof. W. J. Swigart.	Ridgway.....	Earl Overholser.
Center Hall.....	S. W. Smith.	Indiana.....	R. W. Wehrle.	Sadsburyville.....	S. A. Clarke.
Clarion.....	N. A. Goble.	Irwin.....	J. B. Gallagher.	Saegertown.....	J. G. Apple.
Claysville.....	E. T. Buchanan.	Jersey Shore.....	C. B. McCullory.	Saltsburg.....	Thomas M. Duncan.
Clearfield.....	E. W. Hess, C. E.	Johnstown.....	E. C. Lorentz.	Scranton.....	U. S. Weather Bureau.
Cloee.....	Frank McElwain.	Kennett Square.....	Wm. P. Mercer.	Selinsgrove.....	J. M. Boyer, C. E.
Coatesville.....	Prof. W. T. Gordon.	Lancaster.....	C. K. Wills.	Sharon.....	J. K. Harris.
Colebrook.....	William A. Rorer.	Lansford.....	Lehigh Coal & Nav. Co.	Shawmont.....	Winfield S. Guiles.
Confluence.....	Grant Pyle.	Lawrenceville.....	C. P. Darling.	Somerseset.....	William M. Schrock, C. E.
Coraopolis.....	U. S. Engineer.	Lebanon.....	S. B. Benzing.	Springdale.....	U. S. Engineer.
Creekside.....	Roy Spencer.	Lewisburg.....	Prof. Wm. G. Owens.	State College.....	Prof. William Frear.
Cresson.....	P. McGurn.	Linesville.....	Water Supply Com.	Stroudsburg.....	J. C. Le Bar.
Davis Island Dam.....	U. S. Engineer.	Lloyd.....	M. L. Fish.	Sunbury.....	W. G. Lenker.
Derry.....	D. M. Wineman..	Lock Haven.....	Prof. John A. Robb.	Towanda.....	Hiram E. Bull, C. E.
Doylestown.....	Geo. Hart.	Lock No. 4.....	J. A. Sweeney.	Uniontown.....	Wm. W. Marsteller.
Driftwood.....	H. P. Muttersbaugh.	Lycippus.....	Westmoreland Water Co.	Vandegrift.....	W. A. Wiggins.
Ebensburg.....	D. H. Jones.	Lykens.....	Susquehanna Coal Co.	Warren.....	Mrs. Anna Simpson.
Edinboro.....	G. U. Hopkins.	Mareus Hook.....	General Chemical Co.	Waterville.....	Robert Myers.
Elk Lick.....	J. D. Miller.	Mauch Chunk.....	R. K. Wintermute.	Weikert.....	David Libby.
Emporium.....	T. B. Lloyd.	Media.....	R. J. Cheyney.	Wellsville.....	George W. Hill.
Ephrata.....	Jacob Eichelberger.	Millintown.....	Wellington Smith.	West Bingham.....	Frank Johnson.
Erie.....	U. S. Weather Bureau.	Millford.....	J. H. Van Eten.	West Chester.....	J. C. Greene, D. D. S.
Everett.....	Joseph E. Thropp.	Montrose.....	Silas Jaggcr.	West Newton.....	L. C. Rodibaugh.
Falls Creek.....	J. S. Snell.	Mosgrove.....	C. J. Moore.	White Haven.....	Mrs. Jane E. Wallen.
Franklin.....	F. E. Dixon.	Mount Pocono.....	Cecil J. Hoskinson.	Wilkes-Barre.....	Milton Wentz.
Freeland.....	Theodore Reichmann.	Muncy Valley.....	S. P. Worthington.	Williamsport.....	Jacob April.
Freeport.....	Mrs. Anna R. Burtner.	Narberth.....	Charles Decker.	York.....	C. L. Bott.
George School.....	N. W. Swayne.	Neshaminy Falls.....	N. Springfield Water Co.		

WEATHER BUREAU AND COOPERATIVE STATIONS, 1920.



CLIMATOLOGICAL DATA.

UNIVERSITY OF ILLINOIS LIBRARY
1321

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

VOL. XXVI. PHILADELPHIA, PA., JANUARY, 1921. No. 1.

GENERAL SUMMARY.

The month was unusually warm and pleasant with much less cloudiness than ordinarily prevails in January. As there was less stormy weather than usual, the conditions can be truly said to have been exceptionally favorable for outdoor work. The highways remained in excellent condition considering the time of the year, although dirt roads became rough or muddy depending on the changes in temperature. But there was not much deep mud owing to the deficiency in precipitation together with the abundance of sunshine and resulting rapid evaporation. There were no pronounced extremes in temperature and only two well marked cold waves. The first of these overspread most of the State on the 18th; the second, on the 25th. Most of the State had no continued snow cover to speak of, though from one to four inches of snow lay on the ground in the coldest mountain sections during most of the second decade. But, owing to the absence of frequent hard freezing and thawing weather in alternation, the winter grains remained well rooted throughout the month.

TEMPERATURE.

The average temperature for the State, as determined from the records of 74 stations, was 31.0°, or 3.1°, above the January normal. The monthly means ranged from 36.0° at Philadelphia to 24.4° at Wellsboro. The highest recorded at any station was 63° on the 21st at Lancaster; the lowest was -13° on the 19th at Bradford.

PRECIPITATION.

The average precipitation for the State, determined from records of 121 stations, was 2.58 inches, which was 0.66 inch less than normal. The precipitation was fairly even in its distribution, the totals ranging between 1.50 and 3.50 inches at all but a few stations. In general, the precipitation was least along the northern border and greatest in Westmoreland, Somerset, and Cambria counties. The extremes of total precipitation were 5.23 inches at Lycippus, Westmoreland County, and 0.89 inch at Ansonia, Tioga County. The greatest 24-hour fall was 2.18 inches at Narberth on the 14th.

The snowfall averaged only 4.4 inches. Several stations had not more than one inch of snow during the month: at Hanover, York County, the total amount was only a trace. In the colder sections light snows occurred extensively on the 5th, 11th, 14th, and 31st. Scattered snow fell on a few other dates.

G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.		
				8 a. m.	8 p. m.		Average.	* Highest.	Direction.
Erie.....	69.5	295.3	24	74	74	12,585	16.9	54	w.
Harrisburg.....	203.8	300.9	68	73	67	5,213	7.0	40	w.
Philadelphia.....	172.6	300.9	57	80	79	7,954	10.7	35	s.
Pittsburgh.....	117.2	298.2	39	76	68	9,114	12.2	56	w.
Reading.....	164.0	301.0	54	74	64	4,757	6.4	26	nw.
Scranton.....	.....	.....	.....	84	70	5,921	8.0	44	w.

* For any five-minute period.

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	23.2	61	-19	4.19	6.75	2.12	5	11	15
1889.....	29.4	68	-5	3.54	7.02	1.82	9	13	9
1890.....	37.5	77	-2	3.04	6.87	1.47	9	10	16
1891.....	30.5	64	-4	3.64	8.74	1.22	8	10	15
1892.....	26.2	66	-28	4.77	8.46	2.08	5	8	15
1893.....	19.0	57	-26	2.85	4.82	1.65	10	14	14
1894.....	32.8	65	-9	2.29	4.71	0.83	9	9	13
1895.....	24.2	58	-17	4.17	6.36	1.83	10	14	14
1896.....	27.6	80	-15	1.43	2.40	0.52	8	9	14
1897.....	25.6	74	-25	2.15	3.54	0.87	8	8	15
1898.....	30.7	67	-16	4.25	7.57	1.32	6	8	17
1899.....	26.6	66	-21	3.05	4.84	0.82	12	8	11
1900.....	29.8	63	-8	2.64	4.37	1.36	8	9	14
1901.....	29.1	59	-10	2.22	4.41	0.74	8	8	15
1902.....	25.6	58	-13	2.80	5.15	1.00	8	9	14
1903.....	26.9	63	-13	3.31	5.09	1.49	6	8	17
1904.....	20.0	66	-42	3.55	5.82	2.08	10	6	15
1905.....	23.8	69	-21	3.70	7.55	1.72	8	8	15
1906.....	35.0	85	-4	2.53	5.28	0.76	10	8	13
1907.....	30.0	75	-23	4.36	9.69	2.14	6	7	18
1908.....	28.4	59	-18	2.68	5.33	1.46	12	8	11
1909.....	31.2	72	-19	2.92	4.25	1.58	9	6	16
1910.....	27.2	56	-22	5.55	8.91	3.27	7	5	19
1911.....	31.6	70	-5	3.54	6.38	1.25	8	5	18
1912.....	18.6	57	-35	1.92	3.72	0.47	8	7	16
1913.....	36.5	65	3	4.95	8.90	1.51	9	6	18
1914.....	30.2	81	-27	3.37	5.77	1.40	7	7	17
1915.....	28.3	62	-26	5.56	9.69	2.43	10	6	15
1916.....	34.2	76	-12	2.42	5.33	0.20	9	8	14
1917.....	27.9	69	-18	3.60	6.69	1.06	11	8	12
1918.....	16.2	57	-29	3.51	7.28	1.20	10	8	13
1919.....	32.0	64	-15	2.53	2.10	0.34	14	8	9
1920.....	20.9	59	-23	2.47	5.35	1.00	9	8	14
1921.....	31.0	63	-13	2.58	5.23	0.89	12	7	12

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	3.3	5.1	16	2.6	28	18
Phillipsburg.....	Delaware.....	3.2	6.0	15	2.2	13	22
Mauch Chunk.....	Lehigh.....	4.6	8.0	27	3.3	13	15
Wilkes-Barre.....	Susquehanna.....	5.9	10.4	26	4.7	20	20
Williamsport.....	Susquehanna.....	3.3	6.3	25	1.3	21	20
Harrisburg.....	Susquehanna.....	4.8	7.5	23	4.4	16	17
Freeport.....	Allegheny.....	8.0	14.5	23	5.7	1	22
West Newton.....	Youghiogheny.....	3.2	9.9	23	1.4	1	20
Greensboro.....	Monongahela.....	10.1	13.3	15	8.9	2	20
Pittsburgh.....	Ohio.....	6.5	13.3	24	3.5	19	22
Beaver Dam.....	Ohio.....	11.0	19.6	24	5.8	21	30

Climatological Data for January, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	34	29.6	+2.3	57	4	-2	19 31	2.94	+0.41	0.90	8.0	12	13	7	11	w.	Lewis E. Biller.	
Bethlehem.....	Northampton.....	205	37	34.0	+4.1	56	2†	1	19 43	3.07	-0.54	1.75	3.0	8	3	17	5	sw.	Prof. Chas. H. Rominger.	
Bustleton.....	Philadelphia.....	125	2	34.0		60	2	3	19 31	3.21		1.97	1.0	7	15	7	9	.....	Experiment Station.
Carlisle.....	Cumberland.....	467	54	31.6	+3.7	57	2	3	19 32	1.92	-1.22	0.90	5.0	10	12	6	13	ne.	Prof. C. E. Miller.	
Catawissa.....	Columbia.....	520	24	30.4	+2.3	56	2	-4	19 33	2.37	-1.00	0.78	3.5	9	12	6	14	w.	H. H. Yetter.	
Center Hall.....	Center.....	1,272	25	29.2	+3.8	49	4	-6	19 34	1.46	-1.20	0.45	4.7	10	17	7	7	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	21	31.5	+2.8	56	22	4	19 34	2.18	-0.41	1.02	2.1	9	9	12	10	ne.	Shirley J. Zarger.	
Clearfield.....	Clearfield.....	1,120	11	32.0	+5.2	56	3	-4	19 43	3.17	-1.10	0.60	12.0	15	11	9	11	w.	E. W. Hess.	
Coatesville.....	Chester.....	380	33	31.4	+1.0	61	21	1	19 34	2.66	-1.35	1.78	3.3	8	8	13	10	w.	Prof. W. T. Gordon.	
Colebrook.....	Lebanon.....	560	11	31.5		54	2†	3	19 33	2.38		1.21	3.7	9	13	8	10	n.	Wm. A. Rorer.	
Emporium.....	Cameron.....	1,050	33	28.0	+2.2	49	23	-9	19 39	2.12	-1.48	0.45	3.6	10	10	9	12	w.	T. B. Lloyd.	
Everett.....	Bedford.....	1,080	23	33.8	+5.6	56	21	2	19 35	1.26	-1.88	0.33	0.5	11	16	13	2	nw.	J. E. Thropp Co.	
Freeland.....	Luzerne.....	6	6	27.7		52	21	-3	19 24	2.79		0.87	10.8	15	8	10	13	sw.	Theo. Reichmann.	
George School.....	Bucks.....	190	14	33.8 ^b	+3.0	58	2†	2	19 32	2.97	+0.12	1.95	1.6	11	12	7	12	nw.	Prof. N. W. Swayne.	
Gettysburg.....	Adams.....	600	47	33.2	+4.2	62	21	4	19 34	2.14	-1.02	1.36	2.2	8	11	9	11	sw.	Col. E. B. Cope.	
Gordon.....	Schuylkill.....	840	17	29.7	+3.3	53	21	-4	19 46	1.97	-2.23	0.85	4.0	9	16	3	12	w.	Capt. J. G. Johnson.	
Hamburg.....	Berks.....	380	28															.....	State Sanatorium.
Hanover.....	York.....	600	17	33.6	+0.7	58	22	4	19 30	2.20	-1.17	1.50	T.	8	15	6	10	sw.	Miss Olive M. Ryder.	
Harrisburg.....	Dauphin.....	361	51	32.0	+2.1	54	2	5	19 25	1.68	-1.42	0.81	3.1	11	8	8	15	w.	U. S. Weather Bureau.	
Huntingdon.....	Huntingdon.....	650	33	31.3	+2.7	57	21	-2	19 40	2.08	-1.29	0.88	3.0	10	14	2	15	w.	Prof. W. J. Swigart.	
Kennett Square.....	Chester.....	340	49															.....	W. P. Mercer.
Lancaster.....	Lancaster.....	255	33	33.7	+4.1	63	21	3	19 38	2.42	-0.87	1.64	1.0	8	14	11	6	w.	Supt. of Water Works.	
Lawrenceville.....	Tioga.....	1,000	23	27.5	+2.9	52	21	-3	19 40	0.90	-1.20	0.25	6.0	5	11	5	15	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	80	32.8	+3.8	56	2	4	19 30	2.81	-0.81	1.14	2.9	7	13	12	6	nw.	S. B. Benzing.	
Lewisburg.....	Union.....	450	46	30.6	+5.2	54	2	-5	19 31	2.15	-0.84	0.75	4.5	9	10	6	15	w.	Prof. W. G. Owens.	
Lock Haven.....	Clinton.....	560	33	28.5	+1.1	48	2†	-7	19 37	2.49	-0.84	0.68	7.0	11	10	9	12	w.	Prof. J. A. Robb.	
Lykens.....	Dauphin.....	680	6	30.4		53	21	-6	19 39	1.69		0.74	1.0	7	13	10	8	nw.	Susquehanna Collieries Co.	
Mauch Chunk.....	Carbon.....	600	31	30.3	+2.9	59	21	1	19 40	2.83	-1.03	1.41	3.8	9	12	11	8	w.	R. K. Wintermute.	
Mifflintown.....	Juniata.....	445	17	31.5	+3.9	58	21	-2	19 38	1.87	-1.47	0.57	2.5	9	14	4	13	nw.	Wellington Smith.	
Millford.....	Pike.....	500	18															.....	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	18	25.1	+2.6	50	22	-8	19†	3.9	1.65	-1.21	0.85	8.0	7	18	3	10	w.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	19	25.6	+2.7	45	2	-10	19†	28	4.08	+0.81	1.10	10.0	12	10	9	12	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	9	28.6		51	2	1	18 37	2.31		0.55	7.0	5	13	7	11	.....	S. P. Worthington.
Narberth.....	Montgomery.....	300	2	33.7		62	2	3	19 29	3.19		2.18	2.4	11	10	7	14	nw.	Charles Decker.	
Neshaminy Falls.....	Bucks.....	60	32	31.6		60	2	1	19 36	2.43		1.22	0.5	9	15	3	13	w.	North Springfield Water Co.	
Palmerton.....	Carbon.....	398	4	30.3		58	21	0	19 36	2.19		1.42	3.7	5	20	5	6	sw.	F. G. Breyer.	
Philadelphia (a).....	Philadelphia.....	117	50	36.0	+3.3	61	2	7	19 31	2.03	-1.25	1.55	2.2	9	10	5	9	nw.	U. S. Weather Bureau.	
Philadelphia (d).....	Philadelphia.....	12	5	34.4		57	2	8	19 29	2.15		1.48	1.3	10	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	10	32.4		59	2†	2	19 49	1.47		0.83	2.0	5	18	8	5	w.	North Springfield Water Co.	
Quakertown.....	Bucks.....	496	36	29.1	+2.1	56	21	1	19 33	2.39	-1.11	1.78	2.6	7	10	12	9	nw.	John E. Benner.	
Reading.....	Berks.....	325	51	32.9	+3.0	56	2	5	19 24	2.79	-0.77	1.74	2.5	10	8	5	18	nw.	U. S. Weather Bureau.	
Sadsburyville.....	Chester.....	649	10	33.4		60	21	4	19 32	2.49		1.73	3.4	10	10	11	10	w.	S. A. Clarke.	
Scranton.....	Lackawanna.....	805	26	29.3	+2.1	50	21	1	19 29	2.02	-0.69	0.64	3.6	12	11	14	6	sw.	U. S. Weather Bureau.	
Selinsgrove.....	Snyder.....	455	31	30.0	+1.1	54	21	-6	19 43	1.56	-1.56	0.68	4.0	7	4	17	10	sw.	J. M. Boyer.	
Shawmont.....	Philadelphia.....	51	25	34.8		58	2†	6	19 27	4.50	+1.21	2.10	3.0	9	8	13	10	nw.	W. S. Guiles.	
State College.....	Center.....	1,217	36	29.0	+2.7	51	4	-4	19 32	2.43	-0.58	0.90	5.5	10	8	13	10	w.	Prof. Wm. Frear.	
Towanda.....	Bradford.....	754	26	27.4	+2.2	57	21	-2	19 35	1.64	-0.50	0.35	5.7	15	6	14	11	nw.	Hiram E. Bull. C. E.	
Wellsboro.....	Tioga.....	1,419	55	24.4	+0.1	46	21†	-10	19 42	1.17	-1.44	0.43	9.7	10	17	5	9	w.	George W. Hill.	
West Chester.....	Chester.....	455	87	33.6	+3.4	58	21	8	19 25	2.46	-1.29	1.80	3.8	6	21*	1	8	w.	.....
Williamsport.....	Lycoming.....	521	34	29.6	+2.3	49	21	-3	19 29	2.75	-0.31	0.94	7.5	12	13	5	13	se.	Jacob April.	
York.....	York.....	400	33	33.2	+4.1	60	21	5	19 34	2.02	-1.13	1.25	2.0	9	14	6	11	n.	York Water Co.	
Ohio Drainage.																				
Beaver Dam†.....	Beaver.....	700	28	34.8		60	2	9	19 34	2.91	-0.03	0.48	1.6	15	8	2	21	sw.	U. S. Engineer.	
Bradford.....	McKean.....	1,427	6	27.9		49	28	-13	19 42	1.98		0.38	7.3	17	11	8	12	sw.	City Engineer.	
Bradys Bend.....	Armstrong.....	930	3	28.0		52	2	-1	19 37	3.31		0.54	4.0	12	10	3	18	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	30	26.8°		50°	28	-10°	19 37	3.04	-0.03	0.74	3.5	9	11°	7°	10°	.....	John Fawcett.
Claysville.....	Washington.....	1,150	17	33.7	+2.8	59	1	5	19 39	3.66	-0.05	0.74	2.0	10	15	3	13	w.	E. T. Buchanan.	
Corry.....	Erie.....	1,400	9	29.0		51	2	-7	19 37	2.53		0.36	12.4	19	9	3	19	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	24	31.8	+1.4	59	2†	4	19 38	4.64	+0.62	1.21	2.2	12	14	7	10	w.	Miss N. Dixie Wineman.	
Ebensburg.....	Cambria.....	2,000	3						19 38	3.71		0.82	3.0	11	14	5	12	w.	D. H. Jones.	
Elk Lick.....	Somerset.....	2,200	4	31.0		54	4†	-2	19 38	2.81		0.74	2.0	9	11	4	16	w.	J. D. Miller.	
Franklin.....	Venango.....	1,000	48	30.2	+3.7	55	1	-1	19 42	2.78	-0.91	0.52	4.0	13	10	0	21	nw.	F. E. Dixon.	
Greensburg.....	Westmoreland.....	1,150	13	33.6	+3.0	57	2†	6	19 34	4.85	+0.90	0.96	5.8	15	10	3	18	sw.	Westmoreland Water Co.	
Greenville.....	Mercer.....	950	26	30.5	+3.1	55	29	7	19 33	2.96	-0.68	0.75		6	4	8	19	.....	J. R. Homer.
Grove City.....	Mercer.....	1,256	14	30.8	+3.8	52	2†	2	19 40	2.74	-1.03	0.84	8.0	8	8	5	18	nw.	Prof. H. W. Harmon.	
Indiana.....	Indiana.....	1,350	24	32.4	+3.5	57	4	4	19 42											

[illegible]

Continued on page 4.

CLIMATOLOGICAL DATA: PENNSYLVANIA SECTION.

JANUARY, 1921.

Daily Precipitation for January, 1921. - Continued from page 3.

Daily Precipitation for January, 1921. - Continued from page 3.																																				
Stations.	Watershed.	Day of month.																															Total.			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Falls Creek.....	Allegheny.....	.16	.17			.14	.01	.07	.23				.03		.13	.03		.03				.03	.62	.14	T.							.49	.33	2.61		
Franklin.....	Allegheny.....	.07	.20				.23		.37				.13		.10	.17	.05	.20	T.				.02	.22	.22							.30	.52	2.78		
Freeport.....	Allegheny.....	.10	.32			.04	T.		.79				.03	.02	.24	.18	.03					.02	.41	.24							.31	.83	3.36			
Greensboro.....	Monongahela.....	.10	.06				T.		1.20				.16	.06	.80	.10	T.					.10	.20	.20							.30	.02	3.05			
Greensburg.....	Youghiogheny.....	.20	.05			.05	.03	.24	.58				.12		.90	.02						.03	.85	.17	T.	T.					.96	.62	4.85			
Greenville.....	Beaver.....	.22				T.		.50					.05		.75																	.84		2.96		
Grove City.....	Youghiogheny.....	.19	T.			.20		T.				T.	T.		T.	T.	T.	.84	T.			.05	.51	.06	T.						.65	.24	2.74			
Herrs Isl. Dam.....	Ohio.....	.10	.20				.06	T.	.67				.02	T.	.58	.05	T.	T.				T.	.03	.25	.30		T.					.32	.43	4.68		
Indiana.....	Conemaugh.....	.38	T.			T.	.12	.25					.08	T.	.10	.10						.01	.03	.84	.32							.65	.70	3.76		
Irwin.....	Youghiogheny.....	.13	T.			.05	T.	.15	.45			T.	.13	.01	.83	.05	.04	.02				.03	.77	.19	.01						.02	.67	.29	4.38		
Johnstown.....	Conemaugh.....	.17	.07			.12	.01	.50	.44				.07	.03	.12	.06	.03	.04				.09	.24	.10		.01						.46	.22	2.32		
Ketner.....	Allegheny.....	.11	.22			.15	.03	.06	.31				.14	T.	.06	.08	.03	.09	.18			.09	.24	.10							.23	.31	2.21			
Linesville.....	Beaver.....	T.	.18			.08	.14		.25				.10	.01	.90	.08	T.						.01	.33	.40							.44	.75	4.23		
Lock No. 4.....	Monongahela.....	T.	.69				T.	.58	.74				.47		.16							T.	.92									.98	.63	5.23		
Lycippus.....	Conemaugh.....	.15				.05		.38					.20	.02	.05								.32	.26								.53	.10	2.44		
New Castle.....	Beaver.....	.12					.14		.25				.13		.07		.05					.09	.23	.07								.25	.65	2.75		
North Shenango.....	Beaver.....	.24				T.	.05		.35				.05	.05	.20	.25	.02	.05				T.	.05	.42	.01		.01					.27	.23	1.44		
Parkers Landing.....	Allegheny.....	.10	.08			.06	.11		.22				.12	.01	.07	.05	.01	.02	.02			.01	.02	.01	T.							.79	.27	3.34		
Pennline.....	Beaver.....	.03	.21			.08		.51	.32				.04	.01	.07	.39	.01				T.	.03	.03	.50	T.							.48	.17	2.24		
Pittsburgh.....	Ohio.....	.14	.13			.08		.53					.04		.04																		.29	.61	4.00	
Ridgway.....	do.....	.49																															.34	.38	1.97	
Saegertown.....	do.....						.04		.80				.10	.03	.73	.18	.03	T.	T.			T.	T.	.23	.09								.15	.34	4.50	
Saltsburg.....	Conemaugh.....	T.	.31				.02		.35				.09	.02	.01	.04	.02	.03	T.														.37	.66	3.88	
Sharon.....	Beaver.....	.16				.15	.08	.52	.90				.35		.58	.08	.03					.04	.14	.63									.37	.19	1.64	
Somersett.....	Youghiogheny.....	.16				T.	.08		.88				.05	T.	.61	.15	.02					.06	.26	.09									.11	.31	1.44	
Springdale.....	Monongahela.....	.11	.20				T.		.10				.10		T.	.09	.05	.02				.04	.20	.20									.72	.38	4.92	
Summit.....	Beaver.....	.10	.20			.15	T.		.30				.10		T.		.05		.02			.02	.60	.17									.57	.04	3.29	
Turnerville.....	do.....	.04	.11			.08	.04	.36	.82				.24		.95	T.						.02	.64	.22									.11	.15	1.77	
Uniontown.....	Monongahela.....	.46	.06			.08	.04	.27	.53				.04		.67	.04						.06	.54	.22		.03						.20	.11	1.77		
Vandergrift.....	Conemaugh.....	.15				.04		.16	.06				.06	.05	.10								.26	.26	.15								.44	.84	4.00	
Warren.....	Allegheny.....	.18				.12		.30					.08																							
Westford.....	Beaver.....					.05	.21	.09	.85				.10		.85	.05																				
West Newton.....	Youghiogheny.....	T.	.11																														.05	.25	.09	1.10
Lake Drainage.....																																				
Erie.....	Lake Erie.....	.02	.16			T.	.13		.11	.01			.10	.03	.03	.02	.23	.03	.05				.13	.12	T.	.05							.10	.30	1.10	
West Bingham.....	Genesee.....	T.	.46			T.	.05	T.					.05	T.		T.	T.																			

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. * Precipitation included in the next following measurement. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. T. (trace) when precipitation is less than .01 inch.

Daily Temperatures for January, 1921.

Daily Temperatures for January, 1881.																																		
Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Me		
Altoona.....	Maximum...	36	46	47	57	51	33	32	41	35	43	38	35	24	29	34	32	40	17	17	46	48	50	50	37	24	27	38	44	40	38	36	39	
	Minimum...	26	34	29	27	33	29	24	32	26	21	28	20	12	18	23	12	16	7	2	16	33	33	37	23	4	4	31	46	50	...	49	24	
Brookville.....	Maximum...	40	45	...	19	29	23	23	22	14	13	15	13	10	22	21	17	0	-6	3	27	35	36	23	8	33	39	44	44	44	38	34	31	
	Minimum...	22	27	...	19	29	23	23	22	14	13	15	13	10	22	21	17	0	-6	3	27	35	36	23	8	33	39	44	44	44	38	34	31	
Catawissa.....	Maximum...	48	56	48	43	45	40	35	45	36	38	37	36	32	34	36	37	29	24	22	37	55	40	49	37	28	33	39	44	44	44	38	34	
	Minimum...	21	38	27	23	25	35	20	32	26	19	17	28	14	24	24	23	24	4	-4	18	32	34	35	42	32	29	40	47	43	39	36	34	
Chambersburg.....	Maximum...	37	55	47	50	53	40	35	47	39	39	39	37	29	32	35	34	32	22	20	35	54	56	53	42	32	29	40	47	43	39	36	34	
	Minimum...	24	30	30	22	27	34	24	32	28	29	39	39	35	29	36	37	39	28	17	21	45	48	48	39	32	12	11	9	13	23	32	33	
Emporium.....	Maximum...	44	47	45	45	40	36	40	46	34	39	38	35	29	36	37	39	28	17	21	18	45	48	48	39	32	17	28	40	45	45	43	33	
	Minimum...	23	25	24	19	29	28	32	32	20	11	16	19	37	30	29	38	28	38	24	15	36	46	50	48	41	30	17	22	30	41	49	42	28
Erie.....	Maximum...	57	57	51	50	45	34	43	37	35	42	37	30	29	38	28	38	24	15	6	4	36	40	36	30	12	9	12	17	20	36	28	21	
	Minimum...	36	34	32	41	33	30	31	32	24	25	29	41	42	34	25	36	20	31	39	19	25	45	48	47	47	36	25	30	42	50	47	44	41
Grove City.....	Maximum...	50	52	50	52	48	32	40	43	40	41	42	34	25	36	20	17	17	6	2	24	40	41	32	22	5	5	10	10	27	38	26	37	
	Minimum...	31	32	27	27	31	31	30	25	18	14	24	15	6	22	20	17	17	6	2	24	40	41	32	22	5	5	10	10	27	38	26	37	
Harrisburg.....	Maximum...	38	54	46	44	53	40	34	46	37	37	42	37	28	34	36	41	40	19	20	34	53	50	49	36	22	10	12	13	22	28	36	28	
	Minimum...	28	36	36	29	32	33	29	32	29	28	26	23	20	24	29	22	19	11	5	19	32	41	36	22	10	12	13	22	28	36	28	37	
Holtwood.....	Maximum...	48	62	48	50	57	44	37	47	37	40	44	36	31	40	41	40	32	18	26	42	65	46	55	42	24	32	41	49	46	42	35	18	
	Minimum...	26	31	49	57	50	33	43	43	46	45	38	34	28	29	36	43	43	14	21	26	47	49	49	39	27	35	52	47	43	40	30		
Indiana.....	Maximum...	53	56	24	27	30	24	21	22	21	21	20	4	24	23	14	16	9	-10	8	25	34	40	38	37	26	16	-9	8	21	26	27	25	
	Minimum...	35	34	41	40	37	32	34	33	32	30	31	30	21	20	19	25	24	16	-9	10	8	25	34	40	38	37	26	16	-9	8	21	26	27
Mount Pocono.....	Maximum...	36	45	41	40	37	32	34	33	32	30	31	30	24	40	33	29	26	18	14	8	25	34	40	38	37	26	16	-9	8	21	26	27	
	Minimum...	25	30	28	25	30	24	28	27	25	24	22	21	20	19	25	24	16	-9	10	8	25	34	40	38	37	26	16	-9	8	21	26	27	
Philadelphia.....	Maximum...	41	61	39	34	40	33	29	38	33	33	35	27	33	41	31	44	29	20	34	48	52	51	51	33	25	11	15	19	29	32	39	26	
	Minimum...	31	44	39	34	40	33	29	38	33	33	35	27	33	41	31	44	29	20	34	48	52	51	51	33	25	11	15	19	29	32	39	26	
Pittsburgh.....	Maximum...	59	56	36	30	30	31	34	33	33	33	35	27	33	41	31	44	29	20	34	48	52	51	51	33	25	11	15	19	29	32	39	26	
	Minimum...	41	37	34	38	40	30	31	34	33	33	35	27	33	41	31	44	29	20	34	48	52	51	51	33	25	11	15	19	29	32	39	26	
Reading.....	Maximum...	44	56	48	43	45	40	35	45	36	38	37	36	32	34	36	37	29	24	22	37	55	40	49	37	28	33	39	44	44	44	38	34	
	Minimum...	27	40	37	30	35	31	27	33	31	30	29	24	27	49	36	34	34	11	23	34	50	45	45	31	0	3	5	9	18	29	34	24	
Scranton.....	Maximum...	44	50	42	48	50	36	34	40	32	40	38	36	20	21	19	17	23	27	44	11	4	1	18	30	39	31	4	40	21	82	47	57	51
	Minimum...	25	39	33	30	36	25	20	29	22	20	31	25	22	34	42	40	16	28	22	42	46	48	44	28	21	2	5	9	14	38	36	27	
Somerset.....	Maximum...	52	51	58	58	48	38	43	48	37	43	34	30	10	2	29	15	10	6	9	-4	18	40	44	50	34	23	24	38	42	40	38	34	
	Minimum...	31	35	22	22	27	25	21	30	32	22	30	37	37	34	26	30	34	38	37	15	16	43	50	47	44	30	23	2	4	6	15	28	32
State College.....	Maximum...	37	45	45	51	50	34	34	40	33	37	37	34	25	15	19	22	16	15	3	-4	14	38	39	44	30	15	21	36	40	41	39	38	
	Minimum...	26	34	29	26	33	25	30	25	30	25	19	26	18	15	12	28	36	38	32	35	13	20	42	57	47	28	15	3	6	1	8	21	32
Towanda.....	Maximum...	40	47	46	47	43	35	33	40	34	39	38	37	26	36	38	32	35	13	2	-2	17	31	30	28	15	3	6	1	8	21	32	37	
	Minimum...	19	27	29	23	26	22	16	27	22	15	15	10	35	32	42	37	50	45	21	35	51	51	54	40	24	10	12	15	15	28	40	29	
Uniontown.....	Maximum...	59	62	48	59	52	35	50	50	50	35	40	36	35	6	22	27	22	19	14	13	30	50	45	48	47	35	25	30	40	51	49	42	40
	Minimum...	34	35	33	27	35	31	25	35	27	26	19	27	26	19	30	37	31	38	35	25	24	42	48	47	35	15	1	6	10	25	35	25	
Warren.....	Maximum...	47	51	50	50	42	32	40	42	47	37	30	30	17	15	12	28	36	38	32	35	13	20	42	57	47	35	15	1	6	10	25	35	25
	Minimum...	40	33	43	44	40	35	30	37	35	45	37	33	25	33	35	30	35	10	20	40	46	46	47	35	15	1	6	10	25	35	25		
Wellsboro.....	Maximum...	43	43	43	44	40	35	30	37	35	45	37	33	25	33	35	30	35	10	20	40	46	46	47	35	15	1	6	10	25	35	25		
	Minimum...	14	18	22	21	24	23	15	27	19	13	14	15	5	16	18	18	9	-2	-10	-2	14	36	45	27	12	-1	3	-1	5	19	31	18	
Williamsport.....	Maximum...	38	48	46	39	44	40	35	44	40	40	36	36	29	32	35	33	37	21	17	31	49	46	45	41	25	27	38	43	40	36	39		
	Minimum...	24	37	29	23	26	32	20	32	27	19	19	26	17	23	26	24	20	5	-3	14	31	33	32	25	5	9	9	14	26	33	26		

MAR 29 1921

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

VOL. XXVI. PHILADELPHIA, PA., FEBRUARY, 1921. No. 2.

GENERAL SUMMARY.

Like the preceding month, February, 1921, was warm and pleasant with a noticeable deficiency in precipitation. It was the third month with a large excess in temperature, making the entire winter season one of exceptional character, equalled in mildness since the establishment of the Climatological Service only by the winter of 1889-1890 and that of two years ago.

Temperatures were almost continuously above normal until the 20th, and during this time the ground was free from snow except for the first three to five days in the coldest sections. The period was quite favorable for outdoor work, and a large amount of plowing was done by farmers. Owing to the high temperature, the lack of snow cover did not prevent winter grains from remaining well rooted and in thriving condition.

Colder weather occurred in the third decade with minimum temperatures of zero or below and moderate cold waves on the 21st and 25th. The most remarkable storm of the whole winter preceded the first of these cold waves, and left a snow cover of seven to twenty inches from the central mountain section eastward, but in several of the northwestern counties the snowfall in this storm was only from one to three inches. Frost had penetrated the ground so little that it was almost completely thawed again with the melting of the snow, which took place rapidly toward the close of the month.

TEMPERATURE.

The average temperature for the State, determined from the records of 74 stations was 32.8°, which is 5.5° above the February normal. The highest mean temperature was 37.6°, at Philadelphia, and the lowest was 24.4° at Mount Pocono. The maximum temperature for the State was 76° at Everett on the 16th; the lowest was -15° at Ebensburg on the 21st.

PRECIPITATION.

The average precipitation for the State, determined from the records of 119 stations was 2.59 inches, which is 0.26 inch less than normal. Only 29 stations reported either less than 2.00 or more than 4.00 inches. Precipitation in excess of the normal appears to have occurred only at some points in or near the mountains and in the vicinity of Philadelphia. The extreme amounts of precipitation recorded in the State were 4.79 inches at the Philadelphia Navy Yard and 1.14 inches at Brookville. The greatest 24-hour precipitation was 2.52 inches at Philadelphia on the 19-20th.

The average snowfall for the State was 15.4 inches, or nearly twice as much as the combined snowfall of December and January of this winter. The extremes in snowfall for this month were 38.8 inches at Everett and 7.0 inches at Claysville.

G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.			
	Total hours of sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.		
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.
Erie.....	52.3	296.6	18	84	78	9,181	13.7	47	w.
Harrisburg.....	191.6	299.7	64	73	69	4,485	6.7	26	nw.
Philadelphia.....	165.9	299.7	55	85	83	7,507	11.2	37	ne.
Pittsburgh.....	87.5	298.2	29	78	70	8,093	12.0	43	w.
Reading.....	161.0	300.0	54	76	65	4,315	6.4	29	nw.
Scranton.....	.....	.....	.....	85	70	4,909	7.3	33	w.

* For any five-minute period.

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	28.4	63	-31	2.50	4.97	0.89	7	11	11
1889.....	23.0	60	-27	1.96	3.87	0.97	7	9	12
1890.....	37.0	79	0	4.32	6.39	2.28	6	8	14
1891.....	34.8	70	-7	4.61	8.29	2.13	6	8	14
1892.....	31.6	62	-18	1.75	4.48	0.43	7	7	15
1893.....	27.3	60	-16	5.92	9.28	2.92	6	8	14
1894.....	27.6	64	-24	3.53	5.59	1.62	8	9	11
1895.....	20.2	60	-26	1.22	3.47	0.17	10	10	8
1896.....	29.4	65	-21	4.90	9.08	1.94	9	7	18
1897.....	30.6	67	-14	3.28	6.67	1.04	7	8	13
1898.....	29.4	72	-16	2.23	4.05	0.96	8	8	12
1899.....	22.7	67	-39	4.05	10.22	0.98	8	7	13
1900.....	27.1	81	-17	4.22	7.75	1.00	8	6	14
1901.....	21.7	57	-22	0.96	2.75	0.27	10	9	9
1902.....	23.9	64	-24	3.99	7.43	0.45	9	7	12
1903.....	30.5	68	-17	4.49	6.13	1.80	10	7	11
1904.....	21.8	68	-27	2.41	4.80	0.92	10	7	12
1905.....	20.8	59	-25	1.70	2.83	0.44	10	8	10
1906.....	28.0	79	-21	1.70	3.80	0.36	12	7	9
1907.....	22.8	56	-20	1.91	4.37	0.66	12	7	9
1908.....	24.8	64	-29	4.65	8.15	2.51	10	7	12
1909.....	35.8	73	-9	4.84	9.86	2.40	6	7	15
1910.....	26.6	65	-22	3.59	5.39	1.41	9	7	12
1911.....	31.0	66	-8	2.27	3.76	0.85	7	6	15
1912.....	23.7	69	-27	2.20	4.05	0.37	11	8	10
1913.....	27.4	67	-9	1.84	4.61	0.88	12	5	11
1914.....	21.8	65	-27	2.78	6.20	1.30	11	6	11
1915.....	33.3	73	-9	3.90	6.95	1.85	9	5	14
1916.....	25.7	67	-22	3.08	5.86	1.30	8	7	14
1917.....	25.6	68	-20	1.46	3.37	0.35	9	9	10
1918.....	28.2	69	-34	2.46	4.82	0.55	10	8	10
1919.....	32.0	66	-7	2.23	4.27	1.03	12	6	10
1920.....	25.6	62	-20	2.44	5.23	0.70	9	8	12
1921.....	32.8	76	-15	2.59	4.79	1.41	8	8	12

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.		Highest stage.		Lowest stage.		Flood stage.	
		Mean.	Date.	Highest.	Date.	Lowest.	Date.	Flood.	Date.
Port Jervis.....	Delaware.....	2.9	4.4	19	2.3	16	18		
Phillipsburg.....	Delaware.....	2.5	3.9	20	2.0	4	22		
Mauch Chunk.....	Lehigh.....	4.0	4.8	1	3.7	14	15		
Wilkes-Barre.....	Susquehanna.....	5.5	12.6	18	4.0	13	20		
Williamsport.....	Susquehanna.....	3.9	7.4	18	2.5	5	20		
Harrisburg.....	Susquehanna.....	5.0	7.2	19	4.4	5	17		
Freeport.....	Allegheny.....	7.9	12.2	18	5.6	26	22		
West Newton.....	Youghiogheny.....	2.7	5.6	1	1.5	22	20		
Greensboro.....	Monongahela.....	10.3	13.3	10	8.8	21	20		
Pittsburgh.....	Ohio.....	6.3	10.2	11	4.0	24	22		
Beaver Dam.....	Ohio.....	11.9	16.4	12	8.6	24	30		

Climatological Data for February, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.	Cloudy.			
Atlantic Drainage.																					
Altoona.....	Blair.....	1,615	34	31.4	+5.6	72	16	0	21	41	1.96	-0.17	0.75	23.0	14	10	8	10	w.	Lewis E. Biller.	
Bethlehem.....	Northampton.....	205	37	34.6	+4.8	67	16†	5	25	40	3.30	-0.20	1.16	21.0	8	6	17	5	nw.	Prof. Chas. H. Rominger.	
Bustleton.....	Philadelphia.....	125	2	34.7	.....	66	16	7	25	45	2.99	.....	1.17	9.5	9	12	6	10	n.	Experiment Station.
Carlisle.....	Cumberland.....	467	54	35.4	+6.0	68	16	3	21	42	2.83	-0.10	1.82	23.0	9	10	4	14	ne.	Prof. C. E. Miller.	
Catawissa.....	Columbia.....	520	24	33.4	+4.3	69	16	-4	21	43	3.30	+0.60	1.35	18.2	12	11	4	13	w.	H. H. Yetter.	
Center Hall.....	Center.....	1,272	25	32.6	+6.7	67	16	0	21	37	2.49	+0.14	1.75	18.5	6	10	11	7	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	21	34.7	+3.9	69	16	-5	21	44	1.87	-1.04	1.29	14.2	11	5	12	11	sw.	Shirley J. Zarger.	
Clearfield.....	Clearfield.....	1,120	11	32.8	+6.0	69	16	-8	21	44	2.20	-0.77	0.50	20.0	8	9	10	9	nw.	E. W. Hess.	
Coatesville.....	Chester.....	380	33	34.0	+4.1	66	16	8	21†	40	2.58	-1.55	1.10	15.1	9	7	12	9	ne.	Prof. W. T. Gordon.	
Colebrook.....	Lebanon.....	560	11	33.8	.....	68	16	4	25	40	2.45	.....	1.58	17.0	10	8	6	14	ne.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	33	30.2	+5.5	65	16	-11	21	46	2.41	-0.64	0.60	13.5	12	6	9	13	nw.	T. B. Lloyd.	
Everett.....	Bedford.....	1,080	23	35.2	+8.3	76	16	2	21	52	2.02	-0.22	1.40	38.8	4	18	5	5	w.	J. E. Thropp Co.	
Freeland.....	Luzerne.....	.....	6	29.6	.....	56	16	3	25	25	4.16	.....	1.26	28.8	19	5	10	13	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	14	33.8	+4.1	66	16	3	25	40	2.78	-0.29	0.75	8.5	12	11	6	11	nw.	Prof. N. W. Swayne.	
Gettysburg.....	Adams.....	600	47	36.2	+5.9	71	16	9	25	45	2.29	-0.51	1.68	18.0	7	8	8	12	w.	Col. E. B. Cope.	
Gordon.....	Schuylkill.....	840	17	31.5	+6.2	64	16	-4	21	40	3.01	-0.42	1.40	22.0	7	12	5	11	w.	Capt. J. G. Johnson.	
Hamburg.....	Berks.....	380	28	.....	.....	.....	.....	.....	.....	.....	4.34	+0.90	0.80	10.0	10	8	7	13	w.	State Sanatorium.
Hanover.....	York.....	600	17	36.2	+4.5	71	16	9	25	42	2.84	+0.11	1.86	20.1	10	12	8	8	sw.	Miss Olive M. Ryder.	
Harrisburg.....	Dauphin.....	361	51	34.9	+5.9	68	16	15	25	36	2.67	-0.13	1.85	16.6	12	4	9	15	nw.	U. S. Weather Bureau.	
Huntingdon.....	Huntingdon.....	650	33	33.3	+4.9	73	16	-8	21	50	2.75	-0.09	1.46	18.8	8	5	7	16	w.	Prof. W. J. Swigart.	
Kennett Square.....	Chester.....	340	49	34.6	+4.2	65	16	12	25	38	.....	.....	.....	.....	.....	10	12	6	nw.	W. P. Mercer.
Lancaster.....	Lancaster.....	255	33	35.4	+5.6	71	16	4	25	47	2.34	-0.37	1.00	14.0	10	12	8	8	w.	Supt. of Water Works.	
Lawrenceville.....	Tioga.....	1,000	23	29.8	+6.8	63	16	-8	21	43	1.60	-0.29	0.90	16.0	7	12	4	12	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	80	35.1	+6.4	70	16	7	25	41	3.63	+0.19	1.84	16.2	9	14	6	8	w.	S. B. Benzing.	
Lewisburg.....	Union.....	450	46	33.0	+7.2	65	16	-7	21	38	3.08	+0.27	1.50	21.0	9	7	8	13	s.	Prof. W. G. Owens.	
Lock Haven.....	Clinton.....	560	33	31.6	+4.5	55	17	-1	21	33	3.12	+0.30	1.45	20.7	13	4	15	9	w.	Prof. J. A. Robb.	
Lykens.....	Dauphin.....	680	6	33.2	.....	68	16	1	21	44	1.97	.....	1.28	16.5	11	9	8	11	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. K. Wintermute.
Millintown.....	Juniata.....	445	17	33.6	+6.9	68	16	-5	21	45	2.07	-0.23	1.24	16.4	9	7	3	18	nw.	Wellington Smith.	
Millford.....	Pike.....	500	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	18	25.8	+5.5	54	16	-5	21	37	1.80	-0.34	0.70	17.0	5	9	4	15	w.	Silas Jagger.	
Mount Pocono.....	Monroe.....	1,720	19	24.4	+8.7	53	16	-6	25	31	3.54	+0.66	1.10	29.9	11	9	6	13	nw.	Cecil J. Hoskinson.	
Muncy Valley.....	Sullivan.....	1,045	9	31.0	.....	61	16	-5	21	35	1.82	.....	0.72	10.0	4	10	5	13	.....	S. P. Worthington.
Narberth.....	Montgomery.....	300	2	35.2	.....	66	16	10	25	36	3.06	.....	1.46	11.4	10	6	8	14	nw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	32	32.4	.....	62	16	3	25	39	2.60	.....	1.00	15.0	11	12	4	12	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	4	32.6	.....	63	16	4	25	35	3.31	.....	1.31	20.4	9	14	5	9	ne.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	50	37.6	+4.6	68	16	16	25	34	4.40	+1.23	2.52	10.2	10	4	11	13	nw.	U. S. Weather Bureau.	
Philadelphia (d).....	Philadelphia.....	12	5	35.2	.....	66	16	14	25	37	4.79	.....	1.22	10.0	13	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	10	34.8	.....	68	16†	0	1	50	2.40	.....	0.82	11.7	6	14	9	5	w.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	36	32.2	+4.0	63	16	0	21	39	3.43	-0.34	1.29	16.2	10	8	8	12	nw.	John E. Benner.	
Reading.....	Berks.....	325	51	34.4	+4.4	69	16	11	25	37	2.66	-0.93	1.27	14.5	11	5	7	16	nw.	U. S. Weather Bureau.	
Sadsburyville.....	Chester.....	649	10	35.0	.....	68	16	9	25	36	2.33	.....	1.20	11.4	9	7	11	10	se.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	26	31.6	+6.1	64	16	8	21	33	2.84	-0.14	1.46	16.0	11	6	6	16	sw.	U. S. Weather Bureau.	
Selinsgrove.....	Snyder.....	455	31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. M. Boyer.
Shawmont.....	Philadelphia.....	51	25	36.3	.....	65	16	14	21†	35	4.11	+0.86	1.10	11.8	7	9	11	8	nw.	W. S. Guiles.
State College.....	Center.....	1,217	36	31.0	+5.5	68	16	0	21	36	1.87	-0.96	0.46	14.8	11	3	16	9	w.	Prof. Wm. Frear.	
Stroudsburg.....	Monroe.....	500	9	2.97	1.06	11	18	5	5	H. Q. Snyder.
Towanda.....	Bradford.....	754	26	28.9	+5.3	60	16	-9	21	37	2.52	+0.58	0.90	20.6	11	4	10	14	e.	Hiram E. Bull, C. E.	
Wellsboro.....	Tioga.....	1,419	55	25.4	+0.8	60	16	-14	21	40	1.86	-0.55	0.74	24.1	7	17	3	8	w.	George W. Hill.	
West Chester.....	Chester.....	455	87	34.8	+4.0	64	16	9	25	34	3.49	-0.35	1.50	9.0	7	19	0	9	e.	.....
Williamsport.....	Lycoming.....	521	34	33.0	+6.4	62	17	4	21	32	2.37	-0.21	1.00	17.6	12	9	3	16	e.	Jacob April.	
York.....	York.....	400	33	35.8	+6.2	74	16	3	25	47	1.72	-1.33	0.98	14.0	9	10	8	10	n.	York Water Co.	
Ohio Drainage.																					
Beaver Dam.....	Beaver.....	700	28	36.1	.....	69	17	11	21	45	2.27	-0.10	0.38	7.1	16	2	1	25	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	6	29.9	.....	65	16	0	21	40	2.33	.....	0.53	17.8	16	9	6	13	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	3	29.6	.....	68	16	-8	21	44	2.10	.....	0.31	12.0	17	6	6	16	s.	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	30	29.4	.....	68*	16	-9*	22	46	1.41	-1.03	0.61	7.5	4	11*	8*	5*	.....	John Fawcett.
Claysville.....	Washington.....	1,150	17	35.6	+5.8	71	16	4	21	47	2.23	-0.37	0.80	7.0	8	9	3	16	w.	E. T. Buchanan.	
Corry.....	Erie.....	1,400	9	29.8	.....	58	16	4	21	36	2.53	.....	0.46	16.2	17	6	8	14	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	24	32.8	+4.7	64	16†	-6	21	49	2.57	-0.44	0.66	9.5	12	9	5	14	sw.	Miss N. Dixie Wineman.	
Ebensburg.....	Cambria.....	2,000	3	29.9	.....	66	16	-15	21	44	1.86	.....	0.65	16.0	10	11	6	11	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	4	31.7	.....	69	16	-12	21	48	2.83	.....	1.66	22.0	10	6	4	18	w.	J. D. Miller.
Franklin.....	Venango.....	1,000	48	31.0	+6.4	67	16	5	21	39	2.48	-0.47	0.44	10.5	15	6	3	19	n.	F. E. Dixon.	
Greensburg.....	Westmoreland.....	1,15																			

Stations.	Watershed.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown	Lehigh.		.20				.55			.20	.40	.14								1.00	.10							.35	1.25			4.22	
Altoona.	Juniata.	.05	.05	.02		.04	.01	.02	.01	.14	.60	.05								.75		.05	.15	.02							1.96		
Ansonia	Pine Creek.	.09					T.		.30	T.	.77								T.			.26	.10					.08			1.60		
Arendtsville.	Potomac.					.08				.17	.19									1.53		T.	T.					.02			1.99		
Austin.	W. Br. Susq.	T.																															
Belleville.	do.					.11				.21	.27									1.40	.08										2.07		
Bethlehem.	Lehigh.		.04			.17				.16	.35									1.16	.05							.35	1.02		3.30		
Blosserville.	Lower Susq.		.10							.28		.35								1.02	T.		.10				.25				2.00		
Bustleton.	Lower Del.					.12				.06	.38	.01								.60	.15	.20					1.17	.30			2.99		
Carlisle.	Lower Susq.	.08	.18			T.	.15			.11	.14									1.82		.10					.22	.03			2.83		
Catawissa.	N. Br. Susq.		.12			.03		.01		.18	.22	.44							.05	1.35	.15	T.		.05			.67	.03			3.30		
Center Hall.	Susquehanna.	.16					.01			.10	.43									.75					.04						2.49		
Chambersburg.	Potomac.	.02	.02		.02	.09	T.			.48	.18		T.							1.29	T.	.02	.03	T.		.02	.02				1.87		
Clearfield.	W. Br. Susq.	.02			.15		.25			.16	.10							.40		.10	T.		.30								2.20		
Coatesville.	Lower Del.	.03	.03	T.						.11	.20									1.10		.35	.01			.72	.03				2.58		
Colebrook.	Lower Susq.	.01	.04			.03				.16	T.	.19								1.58	.06	.04	T.			.31	.03				2.45		
Cresson	Juniata.	.15		.20						.17	.47	.16								1.45	.05	.20	.05	.02							2.92		
Doylestown.	Lower Del.		.05			.30	.01			.25	.21									1.94	.09					.91	.55				4.01		
Driftwood.	W. Br. Susq.	T.	T.			.30		.70		T.	.50			T.						.60		T.				T.		.10			2.10		
Emporium.	W. Br. Susq.		T.	T.		.15		.30		.10	.20	.46		.05			.08	.12	T.								.05				2.41		
Evrcett.	Juniata.	.05	.02					.15		.32									T.	1.40	.08										2.02		
Freeland.	Lehigh.	.14	.04	.02	.01		.04		.02	.10	.04	.22	.48							1.26	.59	.08	.04	.05	.01	.05	.38	.59			4.16		
George School.	Lower Del.	.0																															

Continued on page 8.

Daily Precipitation for February, 1921.—Continued from page 7.

Stations.	Watershed.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Elk Lick.....	Youghiogheny...	.23	T.	T.	....	.12	.06	T.	.04	.26	....	.28	.08	....	....	....	....	....	T.	T.	1.66	....	.04	T.	.06	....	T.	T.	....	....	....	....	2.83
Falls Creek.....	Allegheny.....	.04	T.	.07	....	.18	.11	....	.02	.18	....	.45	....	....	....	....	....	.03	T.	....	.35	....	.02	.24	.03	.03	....	T.	T.	....	....	....	1.75
Franklin||||	Allegheny.....	.04	....	.04	.06	....	.26	....	.32	.24	....	.44	.12	....	....	....	....	.12	T.	....	.13	....	.40	.05	.02	.02	....	....	....	....	....	....	2.48
Freeport.....	Allegheny.....	.27	....	T.	.02	....	.27	....	.15	.50	....	.36	.02	....	....	....	....	.14	....	....	.47	T.	....	.32	.03	T.	....	.29	....	....	....	....	2.84
Greensboro||||	Monongahela...	.10	.10	....	....	.30	....	.04	.08	....	.20	.10	....	....	....	....	....	....	T.	....	1.40	....	.10	....	.10	....	....	....	....	....	....	....	2.42
Greensburg.....	Youghiogheny...	.02	.02	.02	T.	.29	T.	.11	....	.43	T.	.49	.04	....	....	....	....	.12	T.	....	.77	....	.02	.17	.02	.03	.04	.02	T.	....	....	....	2.61
Greenville.....	Beaver.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.07	.20	....	.10	....	....	.10	.17	T.	.15	T.	.22	....	....	....	2.22
Grove City.....	Youghiogheny...	....	.03	.05	....	.02	.22	....	....	.03	....	.75	.10	....	....	T.	....	.07	T.	T.	.10	....	....	.10	.17	T.	.15	T.	.20	....	....	....	2.08
Herr's Isl. Dam||||	Ohio.....	.15	.01	.01	T.	....	.24	....	.17	.05	T.	.37	.08	T.	....	....	.04	T.	T.	.47	T.	T.	.24	.02	.03	T.	.30	.15	....	....	....	....	3.63
Indiana.....	Conemaugh.....	.10	.10	.34	.17	....	.22	.10	....	.35	....	.72	.05	....	....	....	....	....	....	....	.98	....	.05	T.	T.	T.	.23	.08	T.	....	....	....	2.05
Irwin.....	Youghiogheny...	T.	T.	T.	....	.28	.03	.13	.03	.10	.08	.54	.01	....	....	....	....	.22	....	....	.32	....	T.	T.	T.	T.	.23	.08	T.	....	....	....	3.26
Johnstown.....	Conemaugh.....	.01	.04	.03	....	.22	.05	.04	.63	.21	.49	.05	T.	....	....	....	....	.10	T.	T.	1.04	....	.10	.14	.06	.02	.03	....	....	....	....	....	2.03
Ketner.....	Allegheny.....	....	.08	.15	....	.10	.22	....	....	.15	....	.78	....	....	....	....	....	.06	....	....	.18	....	....	.28	....	.03	....	.19	....	....	....	....	3.01
Linesville||	Beaver.....	T.	T.	.32	.02	.03	.81	....	.17	.21	.02	.53	.22	....	....	....	....	.11	.10	T.	....	....	.01	.17	.03	.01	.06	.19	....	....	....	....	2.12
Lock No. 4||||	Monongahela...	.17	.01	....	T.	....	.23	....	.08	.25	T.	.48	.04	....	....	....	....	.10	....	....	.48	T.	T.	.20	.03	T.	....	.05	....	....	....	....	3.86
Lycippus.....	Conemaugh.....	.05	....	T.	....	.31	.09	.02	....	.62	T.	.63	....	....	....	....	....	.10	....	....	1.15	....	....	.21	.06	....	.12	....	....	....	....	....	2.07
New Castle||||	Beaver.....	.10	T.	.10	....	.34	.25	....	.14	.02	.43	T.	....	....	....	....	....	T.	....	.15	....	....	....	.04	....	.05	.43	....	.02	....	....	....	3.41
North Shenango||||	Beaver.....	.44	.10	.10	....	T.	.82	T.	....	.24	.10	T.	.10	.15	....	....	....	.39	.20	....	....	....	T.	T.	T.	.29	.15	....	....	....	....	....	2.17
Parkers Landing.....	Allegheny.....	.25	T.	.03	T.	T.	.15	....	.24	.10	T.	.10	.15	....	....	....	....	.10	.05	....	.50	....	.03	.10	.10	T.	.12	.15	....	....	....	....	2.37
Pennline.....	Beaver.....	.02	....	.13	.04	.05	.83	....	.17	.17	....	.31	.09	....	....	....	....	.09	.03	....	.09	....	.19	.02	.02	.07	.14	....	....	....	....	....	1.80
Pittsburgh***	Ohio.....	....	T.	....	....	.25	T.	.18	....	.05	.32	.16	T.	....	....	....	.04	T.	....	.09	.38	.01	T.	.18	.01	T.	.14	.01	T.	....	....	....	1.54
Ridgway.....	do.....	....	....	.13	....	.11	....	....	....	.31	....	.36	T.	....	....	....	....	....	....	....	.33	....	....	.30	....	....	....	....	....	....	....	....	....
Saegertown.....	do.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Saltsburg||||	Conemaugh.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sharon||||	Beaver.....	.07	....	.04	T.	....	.37	....	.33	....	T.	.38	.05	....	....	....	....	.05	.04	....	....	....	....	.15	.03	T.	.01	.21	....	....	....	....	1.73
Somerset.....	Youghiogheny...	....	.15	.05	....	.35	T.	.06	....	.26	....	.40	.20	....	....	....	....	.10	....	.05	.70	....	.15	.10	.15	.08	....	....	....	....	....	....	3.96
Springdale.....	Monongahela...	.22	.01	.02	.02	....	.31	....	.20	.09	.01	.44	.04	....	T.	....	....	.08	....	....	.59	T.	.02	.17	.02	T.	T.	.22	....	....	....	....	2.46
Summit||||	Beaver.....	T.	.14	....	.07	.89	....	.37	....	.25	.20	....	....	....	....	....	....	.13	.20	....	....	....	.19	.10	.05	.02	.17	....	....	....	....	....	2.78
Turnerville||||	do.....	....	....	.15	.30	....	....	.45	.15	....	.30	.09	....	....	....	....	....	.09	....	....	....	....	....	.30	.10	....	.21	....	....	....	....	....	2.24
Uniontown.....	Monongahela...	....	T.	.03	....	.24	....	.04	....	.10	....	.32	....	....	....	....	....	T.	....	T.	.87	....	.28	T.	T.	T.	....	....	....	....	....	....	1.88
Vandergrift.....	Conemaugh.....	.52	.04	.04	....	.24	.07	.13	....	.15	....	.50	....	....	....	....	....	.12	....	....	.35	....	.27	.02	.04	.04	....	....	....	....	....	....	2.53
Warren.....	Allegheny.....	....	....	.15	....	.12	....	.30	....	.06	.40	....	....	....	....	....	....	.06	.40	....	.05	....	.30	....	.08	.15	....	....	....	....	....	....	2.07
Westford||||	Beaver.....	....	....	.11	....	.31	.70	....	.11	.19	....	.36	.09	....	....	....	....	....	.05	....	....	....	....	.32	.05	T.	....	.20	....	....	....	....	2.49
West Newton||||	Youghiogheny...	.18	....	....	....	.24	....	.07	.47	....	.45	.10	....	....	....	....	....	....	....	....	.63	....	T.	.22	T.	....	.10	....	....	....	....	....	2.50
Lake Drainage.																																					
Erie***	Lake Erie.....	T.	T.	.02	.05	.49	....	.43	....	.04	.13	.43	T.	....	....	....	.04	.03	.03	T.	....	....	....	.06	.02	T.	.13	....	T.	....	....	....	1.37
West Bingham	Genesee.....	....	T.	T.	....	.25	....	.30	....	.60	....	....	....	....	....	....	....	....	....	....	....	....	....	.30	....	.05	.05	....	T.	....	....	....	1.75

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

Daily Temperatures for January, 1921.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
Altoona.....	Maximum.....	29	29	33	46	46	42	40	40	41	41	34	33	41	43	50	72	64	32	36	34	26	27	28	28	28	35	45	39	.....	.....	.....	38.6
	Minimum.....	23	21	25	30	32	33	29	32	30	31	29	26	29	32	18	31	32	14	15	23	0	18	23	20	4	16	27	34	.....	.....	.....	24.2
Brookville.....	Maximum.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Catawissa.....	Maximum.....	40	38	38	47	54	47	37	44	38	38	35	40	42	50	51	69	54	42	42	30	34	35	47	35	32	40	42	52	.....	.....	.....	42.6
	Minimum.....	24	23	21	18	30	37	26	30	29	33	32	28	28	30	22	26	42	20	17	16	—4	16	30	26	0	7	34	33	.....	.....	.....	24.1
Chambersburg.....	Maximum.....	32	31	42	50	49	46	48	43	41	40	41	48	57	48	69	65	52	38	35	29	34	45	37	32	39	40	49	.....	.....	.....	43.6	
	Minimum.....	23	24	30	30	28	38	26	34	29	33	33	31	31	28	20	25	44	20	21	26	—5	19	23	26	6	16	30	33	.....	.....	.....	25.8
Emporium.....	Maximum.....	31	32	35	45	47	39	36	36	39	37	35	34	37	41	49	65	57	31	38	34	35	34	38	32	29	38	49	42	.....	.....	.....	39.1
	Minimum.....	23	23	25	20	31	27	23	30	33	32	26	26	28	27	16	23	22	16	10	15	—11	20	30	11	—4	8	32	35	.....	.....	.....	21.3
Erie.....	Maximum.....	32	31	33	46	40	36	34	38	40	36	32	33	41	41	56	63	40	25	33	27	36	40	39	27	27	37	43	36	.....	.....	.....	37.2
	Minimum.....	21	27	23	23	32	30	29	26	33	31	26	27	28	28	38	20	20	22	20	16	28	27	19	17	19	30	28	.....	.....	.....	25.4	
Grove City.....	Maximum.....	30	31	34	43	47	42	38	39	41	40	35	36	42	40	57	67	60	28	35	33	31	35	35	29	30	38	50	46	.....	.....	.....	39.7
	Minimum.....	21	21	25	24	36	33	29	26	33	29	25	24	27	30	17	36	21	15	15	24	7	25	29	19	5	11	31	...	...	...	23.9	
Harrisburg.....	Maximum.....	28	32	41	48	50	46	40	42	40	40	39	39	44	52	46	68	57	36	38	31	28	32	43	32	40	39	46	.....	.....	.....	41.0	
	Minimum.....	22	23	30	34	33	37	34	34	33	35	33	31	33	32	28	32	28	24	24	26	18	21	29	23	15	22	34	...	...	...	28.8	
Holtwood.....	Maximum.....	34	38	45	50	50	50	42	47	48	40	44	40	46	60	48	71	61	37	48	29	36	46	52	36	30	44	38	51	.....	.....	.....	45.0
	Minimum.....	18	26	29	27	29	27	29	34	35	32	27	29	23	25	30	23	24	22	16	18	26	29	11	17	25	36	34	.....	.....	.....	26.0	
Indiana.....	Maximum.....	30	30	33	48	52	44	45	46	48	40	40	36	46	43	63	71	67	32	40	38	36	35	41	31	30	42	55	43	.....	.....	.....	43.0
	Minimum.....	25	25	25	27	35	33	27	32	34	35	29	25	30	34	19	32	31	14	17	24	1	23	29	21	2	20	25	31	.....	.....	.....	25.5
Mount Pocono.....	Maximum.....	26	26	28	35	37	36	33	32	34	30	31	26	30	32	36	53	49	34	37	32	24	26	28	30	20	36	35	37	.....	.....	.....	32.2
	Minimum.....	6	14	18	10	25	27	14	14	20	21	20	14	14	20	26	26	18	16	16	18	12	10	12	12	—6	13	24	41	50	16.6
Philadelphia.....	Maximum.....	32	38	46	50	57	51	44	45	44	45	44	43	46	58	46	68	62	39	41	31	30	40	43	39	32	44	41	32	.....	.....	.....	44.7
	Minimum.....	20	27	33	34	35	42	35	32	31	37	37	32	31	34	30	34	35	27	26	26	21	27	30	22	16	24	37	37	.....	.....	.....	30.4
Pittsburgh.....	Maximum.....	34	32	37	50	51	44	47	44	48	43	36	36	46	46	66	70	51	30	37	34	36	38	41	25	31	44	55	40	.....	.....	.....	42.6
	Minimum.....	24	28	29	34	36	34	35	34	36	35	29	27	32	28	26	50	21	17	26	22	14	27	24	19	17	25	40	32	.....	.....	.....	28.7
Reading.....	Maximum.....	29	31	40	44	48	47	40	42	39	40	38	38	43	53	47	69	57	37	38	31	29	35	44	32	30	41	42	46	.....	.....	.....	41.1
	Minimum.....	19	22	30	32	31	35	33	33	31	35	33	31	31	33	28	32	24	25	24	15	22	30	18	11	19	35	36	.....	.....	.....	27.7	
Scranton.....	Maximum.....	33	31	36	43	49	42	36	34	38	38	35	36	40	45	45	64	57	30	38	30	35	38	42	33	28	38	44	.....	.....	.....	39.9	
	Minimum.....	16	22	28	26	38	33	29	27	28	32	27	26	26	16	31	24	21	18	20	8	20	31	13	9	19	35	35	.....	.....	.....	24.2	
Somerset.....	Maximum.....	28	29	32	45	49	42	48	45	47	38	36	38	43	43	65	70	60	30	34	28	30	38	34	32	27	40	47	38	.....	.....	.....	40.6
	Minimum.....	22	20	25	25	32	30	33	40	32	30	25	25	21	30	18	40	26	10	18	22	—5	20	32	16	10	20	28	31	.....	.....	.....	24.1
State College.....	Maximum.....	34	28	35	45	47	40	38	36	39	38	34	31	41	44	48	68	60	31	36	33	30	28	38	29	30	37	43	38	.....	.....	.....	38.5
	Minimum.....	20	21	24	26	29	33	28	28	29	30	29	24	28	29	21	32	28	16	17	22	0	18	24	18	4	15	80	42	.....	.....	.....	23.4
Towanda.....	Maximum.....	29	29	37	39	48	40	38	33	37	36	34	35	40	42	40	60	57	29	36	31	28	34	42	35	28	38	40	.....	.....	.....	37.5	
	Minimum.....	3	16	26	10	34	28	23	22	20	33	29	23	17	30	14	25	29	19	12	23	—9	18	30	14	5	10	33	32	.....	.....	.....	20.3
Uniontown.....	Maximum.....	33	33	36	51	55	46	56	49	55	48	45	35	48	52	67	72	65	32	36	31	37	37	46	31	33	44	58	44	.....	.....	.....	45.5
	Minimum.....	27	29	28	30	39	35	31	35	40	34	31	29	32	39	22	45	32	22	23	25	2	26	30	22	14	26	38	33	.....	.....	.....	29.2
Warren.....	Maximum.....	33	29	33	46	45	40	35	42	42	36	34	35	46	43	56	66	50	25	36	31	40	35	35	28	24	38	56	40	.....	.....	.....	39.2
	Minimum.....	22	25	25	18	35	25	25	25	32	30	26	25	28	18	28	30	25	16	11	18	3	23	28	5	4	8	33	32	.....	.....	.....	22.4
Wellsboro.....	Maximum.....	30	27	35	42	45	38	33	33	33	35	32	35	35	30	48	60	52	30	37	27	25	30	37	30	28	35	43	33	.....	.....	.....	36.0
	Minimum.....	3	17	14	2	13	26	20	18	15	26	24	22	18	27	11	27	24	14	10	14	—14	—2	12	13	—3	3	29	32	.....	.....	.....	14.8
Williamsport.....	Maximum.....	31	27	38	42	47	46	45	39	36	36	36	39	40	46	46	60	62	40	36	36	31	32	42	36	32	38	41	44	.....	.....	.....	40.1
	Minimum.....	22	21	25	21	31	35	27	30	30	34	32	28	30	31	25	28	39	21	19	25	4	22	29	25	7	10	33	44	.....	.....	.....	26.0

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

VOL. XXVI PHILADELPHIA, PA., MARCH, 1921. No. 3.

GENERAL SUMMARY.

This was the warmest March in the history of the State Weather Service, exceeding the previous high record, in 1903, by 1.6 degrees. The precipitation was slightly below the March normal, while the snowfall averaged only 1.0 inch for the State.

In consequence of the mild conditions the growth of vegetation was started much earlier than usual. Grasslands became green near the end of the month, plums, cherries, and early peaches bloomed in the southeastern counties, and considerable early gardening was done. Plowing was in progress a large part of the month.

A cold wave swept over the State on the 29th and 30th and did a large amount of damage. In some sections the early fruit was reported to be almost a total loss, while more or less freezing resulted in all districts except the northern tier of counties where the buds had not swelled. Clover and alfalfa were frozen to the ground and thus given a severe set back. The hardier grasses were but little damaged. On heavy soils the freeze caused a yellowish cast in the winter grains and checked their growth. However it did not kill them in any place and as they were too far advanced for the season it did not seem that they were harmed.

The ice in the streams was light and seemed to gradually disappear without any of the usual spectacular rise in the streams or any ice jams. Inasmuch as there was little frost in the ground the precipitation did not run off so much as usual and the ground was too wet in some places at the end of the month. There was but little of the usual blustery and disagreeable weather and no damaging storms, and the cold wave at the end of the month was the only harmful condition experienced.

TEMPERATURE.

The mean temperature for the State, as determined from the records of 73 stations, was 48.0°, or 10.8° above the March normal. The temperature excess was comparatively uniform in all parts of the State. The highest mean was 53.8° at Shawmont and the lowest was 38.6° at Mount Pocono. The highest temperature recorded in the State was 88° at Lancaster on the 28th, just preceding the cold wave, and the lowest was 7° at West Bingham on the 4th. Sharon reported a daily range in temperature of 61° on the 23d, while Freeland reported a temperature drop of 30° in ten minutes on the 28th.

PRECIPITATION.

The precipitation, from rain and melted snow, as shown by the records of 123 stations was 3.33 inches, which is 0.19 inch less than the March normal. The greatest monthly amount was 6.15 inches at Corry, and the least was 1.05 inches at Creekside. The snowfall averaged only 1.0 inch, while the greatest amount was 7.2 inches at Penn Line, in Crawford County. The average March snowfall for the State is nearly 8 inches, while amounts in excess of 40 inches for the month have been reported from single stations on several occasions.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Total move- ment, in miles.	Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.			Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	105.0	370.6	28	75	75	12,158	16.3	46	sw.	6
Harrisburg.....	288.6	371.0	75	74	60	4,974	6.7	27	sw.	21
Philadelphia.....	263.3	371.0	71	86	78	7,825	10.5	36	nw.	21
Pittsburgh.....	182.2	370.8	49	69	63	9,242	12.4	36	sw.	8
Reading.....	244.0	371.0	66	73	63	4,775	6.4	30	nw.	28
Scranton.....				84	69	5,875	7.9	34	s.	31

* For any five-minute period.

COMPARATIVE DATA FOR MARCH.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	31.2	72	-6	3.55	6.39	1.70	.....	.....	.....
1889.....	39.0	76	4	2.90	5.44	1.44	10	8	13
1890.....	33.2	76	-18	5.15	8.31	2.90	6	10	15
1891.....	33.8	60	-14	5.10	8.39	2.44	7	8	16
1892.....	31.8	66	-4	4.14	6.61	2.04	11	7	13
1893.....	34.8	74	3	2.52	5.09	0.71	9	9	13
1894.....	43.2	84	-2	1.63	2.90	0.24	12	11	8
1895.....	33.8	70	-4	2.31	4.03	0.99	10	10	11
1896.....	30.6	69	-18	4.51	7.98	1.77	11	8	12
1897.....	39.0	75	-5	3.22	5.86	1.01	11	7	13
1898.....	44.0	83	4	4.31	8.40	2.06	10	8	13
1899.....	36.3	75	3	4.87	10.30	1.91	5	9	17
1900.....	31.2	66	-23	3.61	7.31	2.25	10	9	12
1901.....	37.4	80	-11	4.14	7.21	1.52	7	10	14
1902.....	41.3	78	2	3.98	7.50	0.77	10	9	12
1903.....	46.4	83	14	4.52	5.81	2.82	10	7	14
1904.....	36.0	80	-2	4.29	7.02	2.10	9	8	14
1905.....	39.0	86	-18	3.86	6.57	1.40	12	8	11
1906.....	31.7	68	-13	4.46	7.37	2.76	8	7	16
1907.....	41.8	92	-10	4.26	8.20	1.08	11	8	12
1908.....	40.7	83	-4	4.76	10.00	1.58	11	8	12
1909.....	35.6	74	-5	3.07	4.90	1.33	10	9	12
1910.....	44.9	88	5	0.56	1.33	0.00	15	10	6
1911.....	35.0	73	-13	2.57	4.75	1.15	11	8	12
1912.....	33.6	72	-8	5.05	9.71	1.80	10	8	13
1913.....	42.1	81	-7	5.27	9.08	2.75	9	8	14
1914.....	34.2	79	-12	2.61	5.08	0.88	10	8	13
1915.....	32.9	62	-4	1.23	2.80	0.57	15	8	8
1916.....	30.7	84	-31	4.12	8.84	2.20	12	8	11
1917.....	37.3	84	-12	3.68	6.06	1.43	11	8	12
1918.....	41.6	82	0	2.34	4.98	0.87	17	7	7
1919.....	41.1	79	6	3.57	6.99	1.29	15	7	9
1920.....	38.7	80	-11	2.83	9.70	1.06	16	7	8
1921.....	48.0	88	7	3.33	6.15	1.05	12	9	10

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.		Lowest stage.	Date.		Flood stage.
Port Jervis.....	Delaware.....	6.4	12.3	10	4.4	24	18		
Phillipsburg.....	Delaware.....	.....	.....	.....	.....	.....	.....
Mauch Chunk.....	Lehigh.....	5.7	7.5	10	4.5	24	15		
Wilkes-Barre.....	Susquehanna.....	11.0	18.9	10	6.6	1	20		
Williamsport.....	Susquehanna.....	6.3	11.6	10	3.7	1	20		
Harrisburg.....	Susquehanna.....	7.4	11.7	11	4.9	1	17		
Freeport.....	Allegheny.....	10.3	16.9	8	7.2	2	22		
West Newton.....	Youghiogheny.....	4.5	11.4	3	2.4	2	20		
Greensboro.....	Monongahela.....	10.5	18.2	4	8.8	28	20		
Pittsburgh.....	Ohio.....	8.3	15.7	4	4.3	28	22		
Beaver Dam.....	Ohio.....	14.5	22.7	4	9.5	28	30		

Climatological Data for March, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	34	48.0	+10.7	82	27	17	29	48	2.28	-0.49	0.40	2.0	15	15	9	7	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	37	50.4	+10.8	84	28	21	29	50	2.31	-1.37	0.80	0	6	22	3	sw.	Prof. Chas H. Rominger.	
Bustleton.....	Philadelphia.....	125	2	51.1	.....	83	21	22	30	36	2.18	.....	0.77	0	10	15	10	6	n.	Experiment Station.
Carlisle.....	Cumberland.....	467	54	50.4	+12.9	84	21†	20	29	40	2.75	-0.81	0.87	2.0	13	14	5	12	s.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	24	49.3	+11.7	86	27	20	29†	38	3.74	+0.73	0.97	0.5	18	20	4	7	.....	II. H. Yetter.
Center Hall.....	Center.....	1,272	25	46.8	+11.0	81	27	18	29	42	1.33	-2.00	0.46	3.5	13	24	5	2	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	21	49.9	+11.5	82	21†	21	29†	37	2.64	-0.36	0.59	0.4	13	12	11	8	sw.	Shirley J. Zarger.
Clearfield.....	Clearfield.....	1,120	11	48.1	+12.0	83	27	18	30	46	3.97	+0.11	0.55	6.0	17	16	7	8	sw.	E. W. Hess.
Coatesville.....	Chester.....	380	33	51.4	+12.0	85	21†	19	30	43	2.65	-1.64	0.59	2.0	13	10	13	8	n.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	11	49.6	.....	83	21†	21	29†	44	2.53	.....	0.40	2.4	18	15	6	10	s.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	33	43.6	+8.6	79	27	16	41	40	4.42	+0.68	0.50	1.0	16	8	9	14	w.	Col. E. B. Lloyd.
Everett.....	Bedford.....	1,080	23	48.6	+9.9	84	27	19	29†	42	1.45	-2.01	0.63	T	7	24	6	1	e.	J. E. Thropp Co.
Freeland.....	Luzerne.....	.....	6	44.0	.....	76	27	14	31	46	4.59	.....	1.35	1.0	16	7	9	15	sw.	Theo. Reichmann.
George School.....	Bucks.....	190	14	50.4	+11.2	83	21	21	30	36	2.96	-0.37	0.67	0	14	14	7	10	s.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	47	51.7	+12.5	85	21	20	4	39	2.25	-0.91	0.63	0	12	9	15	7	s.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	17	46.6	+10.7	82	28	16	30	47	4.23	-0.03	1.42	2.0	17	15	8	8	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	28	.....	.....	.....	.....	.....	.....	.....	3.00	-1.12	0.82	1.2	11	14	6	11	e.	State Sanatorium.
Hanover.....	York.....	600	17	52.3	+10.7	84	27	21	29	36	2.21	-1.00	0.52	0	9	12	14	5	sw.	Miss Olive M. Ryder.
Harrisburg.....	Dauphin.....	361	51	49.6	+10.5	82	27	22	29	48	2.34	-0.71	0.56	2.0	14	9	7	15	sw.	U. S. Weather Bureau.
Huntingdon.....	Huntingdon.....	650	33	48.4	+10.1	84	27	17	30	42	1.97	-1.62	0.40	1.2	14	11	10	10	e.	Prof. W. J. Swigart.
Kennett Square.....	Chester.....	340	49	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster.....	Lancaster.....	255	33	51.8	+1.38	88	28	19	30	41	1.94	-1.51	0.59	3.0	11	17	12	2	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	23	44.2	+10.2	82	27	9	4	48	2.75	+0.26	0.75	T	11	8	6	17	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	80	51.0	+12.4	85	21†	22	29	40	2.74	-1.09	0.58	0	15	13	11	7	se.	S. B. Benzing.
Lewisburg.....	Union.....	450	46	47.8	+12.5	83	27	20	29†	44	3.22	-0.28	0.47	2.0	17	11	8	12	s.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	33	46.4	+8.6	85	27	17	29	46	3.39	-0.13	0.48	2.0	18	9	12	10	w.	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	6	49.0	.....	85	27	15	30	44	2.28	.....	0.49	1.5	14	13	13	5	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	31	47.0	+10.2	81	21†	17	30	48	5.02	+0.63	0.91	0	13	14	8	9	w.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	17	48.2	+10.2	85	27	21	29	40	2.46	-0.70	0.35	4.0	14	12	6	13	w.	Wellington Smith.
Mifflord.....	Pike.....	500	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	18	40.8	+9.7	78	27	10	4†	48	3.78	+1.09	0.78	0	12	17	2	12	s.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	19	38.6	+6.6	77	28	12	29	47	5.86	+2.19	2.60	T	13	9	12	10	uw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	9	45.8	.....	80	28	16	30	48	3.26	.....	0.63	T	10	13	10	8	.....	A. H. Boatman.
Narberth.....	Montgomery.....	300	2	51.4	.....	84	21	22	29	40	3.60	.....	1.29	0.2	13	13	10	8	sw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	32	50.0	.....	85	21	20	30	44	1.93	.....	0.82	T	10	15	6	10	s.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	4	46.8	.....	81	28	18	30	51	3.20	.....	1.26	1.1	19	10	14	7	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	50	52.5	+12.1	83	21	25	29	46	2.41	-1.09	0.68	0.1	11	8	13	10	s.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	5	51.4	.....	82	27	26	29	44	2.38	.....	0.62	T	10	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	10	52.0	.....	85	21	12	30	55	1.52	.....	0.29	0.8	10	23	5	3	sw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	36	48.3	+12.0	83	21	18	30	37	3.82	+0.12	1.27	0.7	16	9	16	6	sw.	John E. Benner.
Reading.....	Berks.....	325	51	50.1	+10.7	84	21	23	29	53	2.43	-1.19	0.82	1.3	13	7	11	13	se.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	10	51.5	.....	84	21	21	29	43	2.43	.....	0.92	2.0	13	9	14	8	sw.	S. A. Clarke.
Seranton.....	Lackawanna.....	805	26	45.8	+9.6	80	27	19	4	53	3.17	-0.33	0.58	T	17	7	13	11	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. M. Boyer.
Shawmont.....	Philadelphia.....	51	25	53.8	.....	83	21	26	30	32	2.67	.....	1.20	0	10	12	11	8	se.	W. S. Guiles.
State College.....	Center.....	1,217	36	46.2	+10.9	75	27	17	29	43	3.42	+0.12	0.50	5.0	20	6	18	7	sw.	Prof. Wm. Frear.
Stroudsburg.....	Monroe.....	500	9	.....	.....	.....	.....	.....	.....	.....	2.47	.....	0.92	0	13	24	6	1	.....	H. Q. Snyder.
Towanda.....	Bradford.....	754	26	44.4	+10.0	81	27	17	4	40	2.84	+0.13	0.41	0.2	19	6	12	13	sw.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	55	40.6	+7.9	82	27	13	4	43	3.10	-0.22	0.47	T	13	17	5	9	w.	George W. Hill.
West Chester.....	Chester.....	455	87	51.4	+13.1	82	21†	21	29	48	1.26	-2.68	0.45	1.4	5	24	0	7	w.	.....
Williamsport.....	Lycoming.....	521	34	47.1	+10.5	83	27	20	29	46	2.93	-0.38	0.53	0.3	16	13	3	15	w.	Jacob April.
York.....	York.....	400	33	52.2	+12.8	86	27	22	30	42	1.48	-1.86	0.30	0	8	16	13	2	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam††.....	Beaver.....	700	28	50.6	.....	85	19	21	29	53	3.30	-0.33	0.53	0.3	18	8	1	22	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	6	43.7†	.....	78	27	11	4	39	4.46	.....	0.59	0.2	18	9	10	12	s.	City Engineer.
Bradys Bend.....	Armstrong.....	930	3	44.0	.....	83	15	16	4	57	4.70	.....	0.62	T	14	6	13	12	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	30	43.4†	.....	80	27	16	30	46	4.49	+1.39	0.65	T	13	14	8	9	.....	John Fawcett.
Claysville.....	Washington.....	1,150	17	51.0	+10.4	82	27†	20	29	53	3.79	+0.29	1.32	T	13	13	10	8	w.	E. T. Buchanan.
Corry.....	Erie.....	1,400	9	44.6	.....	76	27	15	4	41	6.15	.....	1.14	4.0	19	8	10	13	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	24	48.3	+8.2	83	27	15	30	46	4.58	+0.37	0.80	T	16	15	3	13	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	3	44.0	.....	77	27	15	29	45	3.28	.....	0.58	T	16	13	10	8	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	4	47.7	.....	82	27	15	29	47	2.54	.....	0.62	T	14	12	9	10	w.	J. D. Miller.
Franklin.....	Venango.....	1,000	48	45.6	+9.9	77	27	17	4	45	4.27	+0.79	0.48	5.0	18	10	5	16	w.	F. E

Daily Precipitation for March, 1921.

Stations.	Watershed.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh.			.12	.02						.15			1.05		.09	.13			.01		.01				.56	.02			.21			2.37	
Altoona.	Juniata.		.13	.40		.11		.26		.27			.22	.23		.09	.08		.13		.03	.07				.10			.02		.21		.14	2.28
Ansonia|||	Pine Creek.																																	
Arcndtsville.	Potomac.	.03		.44	T					.25			.02	.05	T	.25	.07		.06			.04				.44	.37		.04				2.06	
Austin.	W. Br. Susq.																																	
Bellfonte.	do.					.31		.95	.05				.08			.18					.21	.07				.17	.44		.25		.23	2.08		
Bethlehem.	Lehigh.			.15					.80								.50																2.31	
Bloersville.	Lower Susq.		.35						.45				.25			.50					T				.75								2.30	
Bustleton.	Lower Del.		.16		.06				.34	.01			.77						T			.28			.34	.17	.01		.13		.25		2.18	
Carlisle.	Lower Susq.	.06	.32		.18	T	.14		.37			T	.08	T	.42	.17		.08		T	.02	.04			.37	.50			T				2.75	
Catawissa.	N. Br. Susq.	.25	.21		.09	.11	.04	.15	.97		.18		.18		.02	.27	.06			T		.15			.45	.10	.03		.18		.30		3.74	
Center Hall.	Susquehanna	.01			.46		.02	.15	.13		.01	.11		.04							.14	.16			.01		.03	.06					1.33	
Chambersburg.	Potomac.	.07	.53		.02		.02		.59				.10	.02	.38	.11		.09		T	.05				.38	.28					T		2.64	
Clearfield.	W. Br. Susq.	.17	.10		.23	.32	.30	.47	.33		.25	.27			.55	.05					.10	.05	.02		.28				.32		.16		3.97	
Coatesville.	Lower Del.		.11		.20				.59				.05	.13		.02	.04		.01					.53	.28			.35		.15		2.65		
Colebrook.	Lower Susq.	.02	.20	.24	.18				.36				.07	.03	.03	.14	.17	.01	.04		.03	.08			.40	.26			.24		.03		2.53	
Cresson|||	Juniata.		.10	.48	.08		.30		.30				.25	.08		.15	.18		.12							.09			.08				2.29	
Doylstown.	Lower Del.		.09		.04				.76				.28					T								.10	.30	.42		.08		.16		2.31
Driftwood.	W. Br. Susq.	.60			.05		1.08		.50				T				.09	T		T	.06					T			.02		.07		2.47	
Emporium.	W. Br. Susq.	T	.11	.10		.35	.43	.37	.26				.11	.42	T		.39	T		.20	.17	.22	T		.28		.09		.50		.42		4.42	
Everett.	Juniata.																																	
Freeland.	Lehigh.		.71		.05	.30	.02	.07	.04	.70			T	.36		.21	.30		.04		.06	.08	.14			1.35	T	T	*	.16	T		4.59	
George School.	Lower Del.		.14	T	.02	T			.40	.04	.01		T	.63	.01		.03					.10	T			.15	.67		.48		.08		.20	2.96
Gettysburg.	Potomac.	.01	.03	.48					.30				.02	T		.22	.03		.09			.08				.63	.26			.10			2.25	
Girardville|||	Schuylkill.		.38	.09	.02	.09	.04	.08	.06	.57			.26		.07		.23	.07	.05			.06			1.19	.15	.03		.17		.04		3.95	
Gordon.	Lower Susq.	.08	.38		.09	.05	.07	T	.52				.31		.18	.22				.08	.03				.44	1.42	.04		.24	.04			4.23	
Gouldsboro|||	Lehigh.		.15	.37		.12	.16		.41				.28		.09	.19		.10					.18			.15	.80			.22	.15		3.00	
Graterford.	Schuylkill.	.07	.07		.20				.56	.16			.33	.40		.20	.30					.10				.18				.22		.35		2.61
Hamburg.	Schuylkill.	.14			.12				.32				.29		.20	.30									.82		.20		.30		.11		3.00	
Hanover.	Lower Susq.	.02	.31		.05	.15	T		.45				.02		.22	.06	.08	.04				.05			.52	.45			.13				2.21	
Harrisburg***.	do.	T	.40	.04	.05	.15	T		.15				.02		.25	.06	.08	.04			T	.02			.56				.04		.18		2.34	
Holtwood|||	Lower Susq.	T	.12	.18					.78				T	.25		.40	.14		.04		T	.04			.03	.39			.13				2.03	
Huntingdon.	Juniata.	.10	.21		.10	.02	.12		.31				T	.25		.40	.14		.04		T	.04				.02	.08	.08		T		.08		3.97
Jersey Shore.	W. Br. Susq.	.08	.11		.08	T	.38	.66	.43	T			.24		.40	.35					.17					.02	.14	.02		.25				3.24
Kennett Square.	Delaware.																																	
Lancaster.	Lower Susq.	.02	.16		.30				.59				.05		.16	.08						.16			.11	.24			.07				1.94	
Lansford|||	Lehigh.		.31	.04	.04				.28				.05		.23	.15		.02		T					*	.99	.04		.14	.14			2.43	
Lawrenceville.	N. Br. Susq.	.05	.05		T		.25		.30				.75								.25	.25				T	.10	.25		.25	T		.25	2.76
Lebanon.	Lower Susq.	.02	.06	.37		.13	T		.58	T			.08		.18	.13		.05			.03				.34	.45	.05		.25		.02		2.72	
Lewisburg.	W. Br. Susq.		.05	.17		.15	.05	.47	.46				.25		.02	.29		.03			.05	.06			.40	.22	.35	T		.40		.03		3.24
Lloyd.	Pine Creek.	T	.18		.09	.10	.32	.16	.43				.40		.07	.23				.17	.08					.43				.19			2.85	
Lock Haven.	W. Br. Susq.	.08	.13		.20	.03	.41	.48	.46				.06	.20	.07	.35		.02	.01	.11	.01				T	.19			.30		.28		3.39	
Lykens.	Susquehanna	.03	.48		.13		.01	.48	.38				.08		.28	.11		.01		T	.01				.22	.49	T		.03	.02	T		2.28	
Mauch Chunk.	Lehigh.	.11	.17		.09				.41				.50	.80	.15	.20				.09					.77	.91			.12		.70		5.02	
Mifflintown.	Juniata.	.09	.28		.30		.12		.35				.17	.31		.29	.13					.01			.08	.22			.02		.09		2.46	
Millford.	Upper Del.																																	
Montrose.	N. Br. Susq.		.10	.06			.10	.30	.55				.15		.35		.18			.20	.17		.20	.78		.65		.15					3.78	
Mount Pocono.	Upper Del.	T					.16								.10	.25	.30	.10							.60	2.60	T		.35	T	.10	1.10	5.86	
Muncy Valley.	W. Br. Susq.		.27	.14		.43	.63		.44				.78		.21	.22					.15				.39				T				3.26	
Narberth.	Lower Del.	.03	.01	.20	.06	T	T		.45				.06	.79					T		T	.27			.28	1.01			.17	.01		.26		3.60
Neshaminy|||	Lower Del.		.11	.01	.01	T			.04	.30			.51		.04	.13		.01		.01	.01		.05			.82			T		.07		.01	1.93
Palmerton.	Lehigh.	.10	.05	.06	.01	.01	.02		.46				.24		.04	.13		.01		.01	.01		.01		1.05	.21	.20		.06		.52		3.20	
Philadelphia (a).	Lower Del.	.05	T	.14	.01	T			.51				.67	.01							.06				.32	.12			.16		.39</			

Daily Precipitation for March, 1921.—Continued from page 11.

Stations.	Watershed.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Edinboro.....	Allegheny.....	.33	T.		.42	.44	.05		.48			.26	.23			.30	.22	.02	.01	.36	.30	T.		.08	.01	.13	.37	1.10	.01		.47	5.59	
Elk Lick.....	Youghiogheny.....	.12	.62	T.		T.	.09		.18	.02		.01	.11	.09	.45	.30	.16	.13	.15	.04	T.		.08	.11	.15		.37	1.10		.47	2.55		
Falls Creek.....	Allegheny.....	.20	.06		.56	.14	.42	.24	.39				.38		.03	.56	.13	.31	.15	.04		.36	.06		.52		.21		.21		4.76		
Franklin|||.....	Allegheny.....	.04	.22		.48	.06	.47	.02	.17	.18			.27		.27	.24	.24	.28	.24				.33	.13		.41	.26	T.		.47	4.27		
Freeport|||.....	Allegheny.....		.24	.03	.99	.36	.56	.03	.04	.34			.52	.01		.34	.13	.04	.14	.20			.22				.18	.57		.03	4.09		
Greensboro|||.....	Monongahela.....		.84		T.	.60				.60		.14			.12	.20	.14	.06		.14		T.	.40				T.	.24		.10	3.88		
Greensburg.....	Youghiogheny.....	.28	.38	T.	.07	.09	.88		.53			.31	.07	T.	.03	.16	.03		.10	.12	.18		.18	.04		.42		.17		3.86			
Greenville.....	Beaver.....	.37		.30		.50		.42				.37			.27				.29			.67	T.	.128	T.			.51		.47	5.47		
Grove City.....	Youghiogheny.....	.16	.01	.40	.05		.43		.30			.14	.07		.82	.03		.04	.12				.20	.13	T.	T.	.68		.58		1.16		
Herr's Isl. Dam|||.....	Ohio.....	T.	T.	.20	T.	.01	.28	.77	T.	T.	.31	.32			T.	.10	T.	.09		T.	T.	.11	T.	.18	T.	T.	.12	.57	T.	.52	3.58		
Indiana.....	Conemaugh.....	.10	.45		.31	.02	.84		.52	.03		.32	.23		.18		.10		.06	.17					.26		.40		.32	.41	3.31		
Irwin.....	Youghiogheny.....	.18	.34		.15	.05	.70		.28	.01		.21	.13		T.	.37	T.	.12		.16			.17		.06		.50		.10		3.53		
Johnstown.....	Conemaugh.....	T.	.40	.38	T.	.06	.06	.49	.38			.50	.05	.10	.21	.33	.06	.05	.25	.18			.07		.11	.05	.06		.30		3.58		
Ketner.....	Allegheny.....	.24			.33	.10	.43		.36			.23			.03	.37	.16	.01	.04	.01	.11				.02	.46		.59		.40			
Linesville|||.....	Beaver.....	.01	.09	.16	T.	.54	.31	.42	.01	.31	.07		.35	T.		.30	.25	.21	.18	.16				.14	.36		1.26	.14	T.	.527			
Lock No. 4|||.....	Monongahela.....		.43	T.		.05	.92	.03	.41				.37		.02	.20	.01	.07	T.	.02	.11		T.	.37		.10	.07	.46	T.	.04	3.68		
Lycippus.....	Conemaugh.....	.26	.69		.03	.99		.52			.25		.37		.01	.30	.20	.18		.18				.27	.01	.02	.58	.18		.13	.33	4.06	
New Castle|||.....	Beaver.....	.04	.04	T.	.26	.20	.36	.02	.18	.08		.23			.01	.30	.09		.17	.05	.20	.02		.27	.01	.02	.58	.18		.13	.33	4.06	
North Shcango|||.....	Beaver.....	.21	.18		.46	.39		.33				.35			.32		.26		.12	.14			.12		.12		1.22	.15		.42	4.22		
Parkers Landing|||.....	Allegheny.....	T.	T.	.16	T.	.40	.25	.50	.05	.15	.20		.56		.30		.30		.20	.15	T.		.20	.04	T.	.30	.25	.02	.38		3.82		
Pennline|||.....	Beaver.....	.06	.15	.01	.39	.53	.41		.31	.15			.37		T.	.33	.13	.09		.20		.12	.23	.20		.10	.11	.13	.24		5.21		
Pittsburgh***.....	Ohio.....	.10	.02	T.	.23	.57	.06		.30	.15		.25		T.	T.	.35	.15	.09		T.	.01	.14		.08	.03	T.		.80	T.	.48	3.36		
Ridgway.....	do.....	.27	.13		.34	.11	.50		.34			.32			.29				.18	.17					.02		.50		.55		3.72		
Saegertown.....	do.....																																
Saltsburg|||.....	Conemaugh.....		.38	T.	.02	.15	.80		.48			.42			.04	.15	T.	.10			.20			.27				.44		.05	3.53		
Sharon|||.....	Beaver.....	.06	.25	T.	.11	.05	.38		T.	.24	.09		.25			.52	.12	.12		.05	.10	.18		.27				.64	T.	.32	3.24		
Somerset.....	Youghiogheny.....	.33	.32	.05	.10	.04	.32		.35			.34	.25	.22	.52	.12	.22		T.	.02	.15		.10	.23	.11		.20		.12		3.71		
Springdale.....	Monongahela.....	.01		.29	T.	.03	.32	.76	T.		.33		.53		.02	.15	T.	.12						.23	.10	.01	.15	.37	T.	.03	3.52		
Summit|||.....	Beaver.....	.17			.37	.27	.39		.32	T.		.39			.31		.26		.38	.21	.06			.07	.10		1	.43	T.	T.	4.73		
Tionesta.....	Allegheny.....	.30			.28	.48		.26	.28		.53				.17	.22		.18	.21		.06			.28	.02		.53	.04	.24		3.73		
Turnerville|||.....	Beaver.....	.19	.14		.24	.33	.37		.27	.09		.39		.30		.08	.25	T.	.24		.05		.29		.10	.01	.10	.25		.30	3.36		
Uniontown.....	Monongahela.....	.38	.33			.69		.62		.17	.15		.19		.08	.25	T.						.20	.08	.03		.30		.30	3.95			
Vandergrift.....	Conemaugh.....	.28			.50	.05	.72		.38			.25			.22	.36		.14		.25				.35		.52		.20		4.22			
Warren.....	Allegheny.....	.30	.08		.12	.20	.35		.28			.40		.18		.12	.08	.04	.06	.34	.16			.10	.08		.68				3.51		
Westford|||.....	Beaver.....	.21	.13	T.	.30	.30	.48		.30	.10			.30		.28		.19		.25		.08	.12	.24		.10	.03		1.27	.35	.03	4.87		
West Newton|||.....	Youghiogheny.....		.55			.12	.87			.37			.28			.02	.18			.14			T.	.22			.06	.05	.33		.17	3.48	
Lake Drainage.																																	
Erie***.....	Lake Erie.....	.06	.01	.04	.09	.50	T.	.03	.46			.45	T.		.11	.04	.28			.07	.12	T.		.03	T.	.10		.51	.42	T.	.41	3.73	
West Bingham.....	Genesee.....	T.	.04		.05	.10	.25		.16			.10		.20		.20				.10	.22	.05		T.	.10		T.	.10		.43	2.10		

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement. T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

Daily Temperatures for March, 1921.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Altoona.....	Maximum ... 44	45	51	38	40	62	68	72	69	51	59	64	58	59	70	64	62	54	63	76	75	51	52	48	67	76	82	79	42	53	65	60.0
	Minimum ... 33	31	27	18	28	33	48	48	45	27	28	34	47	35	41	51	29	32	34	47	51	81	23	37	43	45	53	31	17	25	36	36.1
Brookville.....	Maximum ... 43	50	50	35	42	55	56	73	54	51	64	65	60	62	...	63	66	53	73	72	68	43	56	56	66	71	80	59	42	58	55	58.2
	Minimum ... 28	29	21	18	29	30	41	38	26	20	21	30	30	28	...	24	20	28	29	48	34	22	20	39	40	38	42	20	18	16	31	28.6
Catawissa.....	Maximum ... 50	54	60	39	38	58	70	63	70	58	60	68	68	68	70	67	59	49	57	73	79	52	57	58	71	77	86	81	54	54	60	62.2
	Minimum ... 32	28	39	23	26	29	42	45	58	30	26	30	44	31	48	53	28	33	28	41	52	33	23	37	43	43	50	54	20	20	39	36.4
Chambersburg.....	Maximum ... 50	49	57	49	45	64	72	68	69	59	56	65	64	61	67	65	58	56	63	78	82	65	53	51	73	81	82	77	44	52	68	62.7
	Minimum ... 30	29	44	24	30	29	47	44	44	31	25	31	51	37	49	46	27	37	31	49	51	35	26	38	45	44	47	44	21	21	42	37.1
Emporium.....	Maximum ... 40	46	49	35	40	54	54	70	52	59	59	60	56	61	67	60	57	46	62	71	69	43	53	50	64	73	79	64	38	53	54	56.1
	Minimum ... 31	27	31	16	28	31	44	38	32	25	21	30	39	33	40	35	22	28	32	49	41	30	18	35	30	40	42	24	18	16	34	31.0
Erie.....	Maximum ... 42	53	39	29	60	61	49	71	57	50	58	63	42	40	68	58	55	40	76	74	70	36	45	58	57	67	75	58	30	60	54	54.7
	Minimum ... 35	39	25	18	29	33	32	34	30	28	40	38	34	36	36	36	34	30	40	62	36	30	30	43	45	55	55	22	21	29	33	35.1
Grove City.....	Maximum ... 45	54	51	34	47	56	57	72	69	53	73	67	57	61	66	62	55	55	76	73	73	47	55	55	64	69	76	75	56	58	56	58.9
	Minimum ... 31	35	29	16	26	26	39	51	31	34	41	49	39	36	36	36	29	38	60	47	29	27	41	46	52	55	55	20	22	33	35.7	
Harrisburg.....	Maximum ... 48	50	57	39	37	60	74	62	68	53	56	64	66	62	67	62	55	52	60	76	80	48	52	52	71	80	82	78	39	51	60	60.0
	Minimum ... 37	40	39	27	28	34	48	42	44	35	35	37	49	41	47	43	37	39	35	49	48	37	30	37	48	54	57	30	22	25	41	39.2
Holtwood.....	Maximum ... 57	62	57	49	53	61	74	72	67	53	57	66	67	64	71	74	57	54	58	81	84	50	54	58	75	85	86	83	39	48	59	63.7
	Minimum ... 35	42	30	28	30	40	35	48	35	30	33	38	38	41	47	37	34	31	38	58	38	30	34	39	49	52	55	39	27	32	45	38.3
Indiana.....	Maximum ... 46	52	51	40	51	61	69	76	76	54	67	71	60	67	65	64	59	58	76	76	74	49	60	58	69	78	82	79	51	65	58	63.8
	Minimum ... 31	33	37	19	29	41	50	52	39	21	32	39	46	37	39	43	24	31	38	57	48	31	26	40	49	48	55	30	19	27	37	37.0
Mount Pocono.....	Maximum ... 40	42	43	31	36	33	37	46	47	45	44	45	43	45	47	48	40	43	45	48	68	44	36	40	46	65	72	77	30	39	46	45.8
	Minimum ... 30	32	33	28	17	26	30	33	37	35	36	37	35	38	39	40	22	20	25	35	40	23	25	30	36	39	48	30	12	26	35	31.4
Philadelphia.....	Maximum ... 55	66	58	45	50	67	70	74	69	58	58	65	67	62	68	71	57	51	54	77	83	54	52	59	73	80	83	82	44	53	66	63.4
	Minimum ... 40	43	45	39	27	48	42	41	48	38	37	38	49	43	45	48	40	38	35	51	54	40	35	38	55	56	50	36	25	32	44	41.6
Pittsburgh.....	Maximum ... 48	54	50	36	61	61	70	74	62	51	64	66	56	65	65	63	59	56	76	77	71	40	60	62	67	76	80	62	39	62	59	61.0
	Minimum ... 34	45	27	19	35	53	62	31	30	40	47	46	39	46	38	34	32	43	64	40	31	32	47	51	60	61	25	22	33	33	40	40.4
Reading.....	Maximum ... 49	60	57	41	38	59	73	70	69	51	58	66	65	60	67	66	57	50	55	79	84	48	54	57	70	82	83	83	40	51	64	61.5
	Minimum ... 38	40	41	26	27	32	46	40	42	35	32	35	46	38	45	43	36	37	32	49	50	37	31	36	52	57	56	30	23	26	41	38.7
Scranton.....	Maximum ... 49	54	54	35	38	53	63	60	68	47	56	64	54	62	68	58	58	41	52	71	78	42	53	56	66	74	80	76	34	50	56	56.9
	Minimum ... 36	33	35	19	23	38	46	44	32	31	30	35	36	33	38	47	34	28	28	48	42	30	26	35	48	47	56	23	19	22	34	34.7
Somerset.....	Maximum ... 44	47	45	36	58	62	68	76	65	62	64	66	65	55	70	58	59	53	58	77	70	45	53	48	69	73	80	64	44	55	62	59.7
	Minimum ... 30	34	33	15	30	45	40	53	36	31	40	43	35	43	35	40	35	30	36	55	45	28	26	38	38	45	45	25	15	25	38	35.7
State College.....	Maximum ... 48	47	50	37	41	58	68	65	64	50	56	62	56	58	68	62	50	58	70	73	48	51	50	66	69	75	70	37	49	60	57.0	
	Minimum ... 32	27	36	18	27	34	44	48	45	27	35	34	47	31	45	42	28	28	32	51	46	30	23	36	47	47	52	27	17	23	38	35.4
Towanda.....	Maximum ... 47	49	54	39	37	57	46	61	65	45	56	59	55	57	69	60	54	45	54	70	74	46	55	54	66	77	81	69	31	51	54	56.0
	Minimum ... 34	29	39	17	20	35	37	35	35	27	26	31	38	29	46	40	27	26	26	48	46	29	20	31	52	38	46	29	18	20	39	32.7
Uniontown.....	Maximum ... 52	55	54	40	62	65	72	78	67	52	67	71	60	68	68	64	57	57	79	80	77	52	54	64	71	77	83	78	41	65	65	64.5
	Minimum ... 34	40	40	23	35	54	52	52	37	28	37	40	49	38	47	45	27	33	43	62	52	34	31	46	51	52	61	31	22	31	39	40.8
Warren.....	Maximum ... 38	50	47	36	45	57	56	72	55	51	62	64	50	63	68	60	54	47	70	70	70	40	58	52	65	74	78	60	38	42	58	56.4
	Minimum ... 30	31	21	15	24	40	38	44	30	25	30	34	36	38	40	35	25	25	30	60	38	28	24	38	48	45	50	22	18	22	28	32.7
Wellsboro.....	Maximum ... 38	44	50	34	33	50	45	55	55	50	58	55	48	50	66	53	55	42	55	66	66	43	52	46	55	72	82	68	32	52	52	52.5
	Minimum ... 30	25	32	13	21	32	33	30	31	28	25	30	29	27	39	36	22	22	25	37	44	25	17	30	40	37	41	25	14	18	29	28.6
Williamsport.....	Maximum ... 42	41	57	46	36	48	62	59	62	55	55	59	60	66	63	57	56	58	65	75	59	52	51	68	78	83	81	39	50	56	58.0	
	Minimum ... 35	30	36	22	26	31	41	44	43	30	30	33	45	34	49	51	31	33	41	46	46	33	25	38	48	43	43	35	20	24	41	36.2

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CHARLES F. MARVIN, Chief. UNIVERSITY OF ILLINOIS

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

VOL. XXVI PHILADELPHIA, PA., APRIL, 1921. No. 4.

GENERAL SUMMARY.

This was the warmest April in the history of the State Weather Service, exceeding the previous highest mean, in 1915, by 1.4°. The excessive temperatures were broken on the 2d, 11th, and 19th by moderate cold waves, when frosts and freezing temperatures occurred in nearly all parts of the State. Following the warmest March on record, the high temperatures advanced vegetation far beyond the season. Early peaches were in bloom in the southeastern portion of the State when the first cold wave occurred, while the cold wave on the 11th found them in bloom in the mountain districts, and early apples in bloom in the southeastern counties. These two cold periods were very destructive of orchard fruits, and plums, pears, and cherries were generally killed except in a few favored localities. The cold wave of the 19th damaged late apples in the southern districts, and early varieties of fruits in the northern part of the State. However the temperature reactions served to hold the blooming of late apples in northern counties until near the close of the month, and they came through with little or no damage. Rain, changing to snow and sleet, preceded and accompanied the second cold wave, and it was hard to determine under the conditions, whether the moisture acted as a moderate protection or whether it added to the destruction. Pastures and meadows were green at the end of March, and during the first two cold waves clover and alfalfa were frozen to the ground. The hardier grasses were generally unharmed. The conditions seemed to be favorable for the winter grains, except wheat on heavy soils, and a rank growth resulted. Plowing for corn was well advanced at the end of the month, and a large part of the ground was harrowed and ready for planting.

TEMPERATURE.

The mean temperature for the State, as determined by the records of 73 stations, was 55.3° or 6.7° above the April normal. The highest temperatures were generally recorded on the 25th, and the lowest on the 2d or the 11th, but the highest was 96° at Everett on the 26th, and the lowest 10° at Mount Pocono on the 1st. The cold waves were in marked contrast to the high temperatures that prevailed during the remainder of the month.

PRECIPITATION.

The average precipitation, from rain and melted snow and sleet, as reported by 124 stations, was 3.11 inches, or 0.23 inch less than the April normal. There was a small excess at most places in the mountain districts, and generally a deficiency elsewhere. The greatest monthly amount was 5.06 inches at Corry, and the least was 1.12 inches at Montrose. The average snowfall for the month was 0.8 inch, and the heaviest was 7.0 inches at Montrose. The distribution of snowfall was very uneven as the temperature conditions were such that most of the precipitation occurred as rain in some localities. The precipitation was sufficient to put the soil in good condition for seeding, and the water supply was generally ample.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.		
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.
Erie.....	165.5	401.1	41	74	72	10,284	14.3	42	ne.
Harrisburg.....	224.7	398.6	56	72	57	3,446	4.8	22	nw.
Philadelphia.....	232.1	398.6	58	82	72	7,662	10.6	33	s.
Pittsburgh.....	235.6	399.9	59	70	58	7,668	10.6	35	w.
Reading.....	235.0	399.0	59	71	60	4,440	6.2	25	se.
Scranton.....	.....	.....	.....	79	61	4,958	6.9	26	se.

* For any five-minute period.

COMPARATIVE DATA FOR APRIL.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	47.2	92	12	2.52	4.23	0.99	14	10	6
1889.....	49.7	88	14	4.50	8.15	2.09	11	8	11
1890.....	48.6	85	12	3.46	5.50	1.75	.....	.....	.....
1891.....	49.8	87	11	2.08	3.54	1.12	13	9	8
1892.....	46.9	85	14	2.04	4.43	0.61	10	10	10
1893.....	47.7	85	16	4.74	6.91	2.95	7	10	13
1894.....	48.0	83	5	3.62	10.00	1.69	11	8	11
1895.....	49.2	90	5	3.76	7.09	0.79	10	8	12
1896.....	53.0	97	4	1.75	3.39	0.20	10	10	10
1897.....	49.0	92	12	3.30	4.63	1.20	12	9	9
1898.....	45.6	84	4	2.93	5.34	1.36	9	8	13
1899.....	50.2	92	2	1.76	3.25	0.70	15	9	6
1900.....	49.2	90	13	1.57	2.80	0.60	14	8	8
1901.....	47.2	95	10	5.41	9.18	1.46	9	5	16
1902.....	48.0	91	20	3.56	7.14	1.34	8	10	12
1903.....	48.8	90	12	3.53	4.93	2.16	11	7	12
1904.....	44.7	86	9	3.45	6.42	1.34	8	8	14
1905.....	48.4	84	16	2.84	4.74	1.39	9	11	10
1906.....	50.0	89	12	3.13	6.96	0.75	14	8	8
1907.....	43.6	84	8	2.64	4.42	1.02	10	7	13
1908.....	49.8	89	0	3.51	6.31	1.85	12	8	10
1909.....	48.5	87	8	5.39	8.42	2.67	10	9	11
1910.....	52.6	89	18	5.07	8.50	2.21	10	9	11
1911.....	46.2	84	6	3.79	5.85	1.66	11	7	12
1912.....	50.2	83	18	4.39	7.31	2.41	10	7	13
1913.....	50.6	90	17	3.82	9.28	1.46	12	6	12
1914.....	47.3	93	5	4.66	7.50	1.90	10	8	12
1915.....	53.9	98	15	1.92	4.41	0.46	13	10	7
1916.....	48.0	87	16	3.65	7.40	1.65	9	9	12
1917.....	48.5	87	14	2.08	4.89	0.41	11	10	9
1918.....	48.2	81	12	4.53	2.41	0.30	10	9	11
1919.....	48.5	90	6	2.70	4.76	0.90	10	10	10
1920.....	46.0	87	8	4.39	11.34	2.44	9	9	12
1921.....	55.3	96	10	3.11	5.06	1.12	13	7	10

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	4.4	5.8	18	3.2	13	18
Phillipsburg.....	Delaware.....	.....	.....	.....	.....	.....	.....
Mauch Chunk.....	Lehigh.....	4.8	6.4	24	4.1	13	15
Wilkes-Barre.....	Susquehanna.....	7.1	12.5	25	4.8	17	20
Williamsport.....	Susquehanna.....	4.2	7.5	24	3.1	15	20
Harrisburg.....	Susquehanna.....	5.4	7.8	26	4.6	16	17
Freeport.....	Allegheny.....	7.5	9.5	2	5.9	28	22
West Newton.....	Youghiogheny.....	2.5	2.8	30	2.2	7	20
Greensboro.....	Monongahela.....	8.8	9.8	3	8.3	27	20
Pittsburgh.....	Ohio.....	5.9	7.2	30	4.1	6	20
Beaver Dam.....	Ohio.....	9.6	13.9	30	7.6	7	30

Climatological Data for April, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation of in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	34	55.3	+7.1	85	25	18	11	36	2.73	-0.05	0.71	2.0	11	14	9	7	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	37	57.6	+5.7	83	4†	25	2	44	4.63	+1.47	0.98	0	7	8	18	4	sw.	Prof. Chas. H. Rominger.
Bustleton.....	Philadelphia.....	125	2	58.0	.....	82	25	26	2	35	3.03	.....	0.57	T	11	13	8	9	sw.	Experiment Station.
Carlisle.....	Cumberland.....	467	54	58.8	+6.6	90	25	26	11	42	3.52	+0.19	1.30	T	10	15	2	13	s.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	24	55.8	+4.5	91	25	22	2	50	4.83	+0.40	2.28	0.2	11	17	6	7	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	25	54.4	+5.5	88	25	21	11	37	3.17	+0.02	1.18	1.2	8	20	5	5	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	21	56.4	+6.6	85	25	25	2†	41	3.19	+0.35	1.01	T	9	11	14	5	s.	Shirley J. Zarger.
Clearfield.....	Clearfield.....	1,120	11	54.8	+6.8	92	25	20	11	52	2.80	-0.59	1.06	1.0	9	16	8	6	w.	E. W. Hess.
Coatesville.....	Chester.....	380	33	57.5	+6.7	89	25	22	2	41	2.98	-0.64	1.39	2.0	12	10	12	8	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	11	56.2	.....	86	25	25	2	37	3.26	.....	1.45	0.2	13	14	5	11	se.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	33	52.4	+5.3	85	25†	18	11	45	3.43	+0.08	0.78	0.5	13	13	5	12	w.	T. B. Lloyd.
Everett.....	Bedford.....	1,080	23	56.4	+8.0	96	26	20	10	46	1.77	-1.46	0.79	T	6	20	10	0	n.	J. E. Thropp Co.
Freeland.....	Luzerne.....	.....	6	52.5	.....	80	25	20	11	31	3.34	.....	1.10	1.2	14	10	7	13	sw.	Theo. Reichmann.
George School.....	Bucks.....	190	14	56.4	+6.3	79	4†	25	2	39	4.08	+0.44	1.21	0	14	16	7	7	sw.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	47	58.8	+8.4	90	25	26	11	42	3.62	+0.05	1.07	0	10	14	4	12	s.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	340	17	54.6	+6.7	85	25	19	2	44	4.39	-0.67	2.28	T	10	17	4	9	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	28	.....	.....	.....	.....	.....	.....	4.03	.....	-0.30	0.95	0	12	16	2	12	w.	State Sanatorium.
Hanover.....	York.....	600	17	58.8	+5.8	89	25	26	11	39	3.19	+0.01	1.20	.....	11	14	7	9	sw.	Miss Olive M. Ryder.
Harrisburg.....	Dauphin.....	361	51	56.9	+5.4	87	25	28	11	33	3.29	+0.19	1.91	T	12	9	8	13	s.	U. S. Weather Bureau.
Huntingdon.....	Huntingdon.....	650	33	56.2	+6.6	90	25	22	2	47	3.41	+0.07	1.03	T	11	11	6	13	w.	Prof. W. J. Swigart.
Kennett Square.....	Chester.....	340	49	56.9	+8.6	80	25	25	2†	38	.....	.....	.....	.....	11	13	6	5	s.	W. P. Mercer.
Lancaster.....	Lancaster.....	255	33	57.0	+6.2	88	25	23	2	46	3.15	-0.33	1.30	0	11	13	7	7	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	23	53.2	+7.4	88	26	20	11	56	2.75	-0.43	1.00	T	8	13	6	11	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	80	58.0	+7.5	88	25†	26	2	40	3.10	-0.25	1.33	0	12	11	11	8	sw.	S. B. Benzing.
Lewisburg.....	Union.....	450	46	56.2	+8.0	89	26	23	2	44	3.64	+0.09	1.43	0	10	10	6	14	s.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	33	55.5	+5.2	92	25†	20	11	47	2.90	-0.48	1.45	T	9	9	12	9	w.	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	6	56.6	.....	91	25	18	3	59	4.48	.....	2.50	T	13	14	7	9	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	31	55.4	+6.6	84	25	20	2	43	4.83	+0.90	1.66	T	7	12	6	12	e.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	17	56.2	+6.4	91	25	24	2	46	4.27	+0.27	1.70	T	9	13	10	7	nw.	Wellington Smith.
Milford.....	Pike.....	500	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	18	51.4	+7.3	82	26	16	11	40	3.20	-0.34	1.30	7.0	7	16	2	12	s.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	19	48.4	+5.4	76	26	10	1	33	3.09	-1.07	2.10	1.0	8	12	8	10	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	9	55.4	.....	90	25†	19	1	47	4.26	.....	1.82	T	7	15	6	9	.....	A. H. Boatman.
Narberth.....	Montgomery.....	300	2	57.1	.....	82	25	27	11	36	4.06	.....	1.95	0.3	14	11	6	13	sw.	Charles Decker.
Neshaminy Falls††.....	Bucks.....	60	32	55.8	.....	81	25	24	2	41	1.12	.....	0.50	T	7	12	4	14	s.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	4	56.0	.....	84	5	20	1	45	4.59	.....	1.45	T	10	12	14	4	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	50	58.5	+6.9	82	25	29	11	28	1.85	-1.52	0.78	0.4	12	10	4	16	s.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	5	57.4	.....	83	25	30	11	30	2.61	.....	0.69	0.4	16	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	10	57.2	.....	85	26	18	12	56	3.21	.....	1.19	T	8	19	9	2	sw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	36	55.1	+6.7	80	4	23	2	39	3.34	+0.15	1.13	T	12	11	9	10	e.	John E. Benner.
Reading.....	Berks.....	325	51	57.2	+6.1	85	25	28	11	33	5.76	+2.44	2.42	0.1	13	10	6	14	se.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	10	57.8	.....	89	25	26	2†	35	2.89	.....	1.42	1.5	14	10	8	12	w.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	26	55.6	+7.7	89	26	25	2	35	2.88	+0.05	0.95	3.0	11	13	7	10	nw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	31	.....	.....	.....	.....	.....	.....	4.20	+0.64	2.05	.....	9	4 ^b	9 ^b	.....	.....	.....	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	25	59.0	.....	81	25†	29	2	37	2.72	-0.45	1.45	T	10	12	9	9	sw.	W. S. Guiles.
State College.....	Center.....	1,217	36	53.6	+6.2	86	25	21	11	38	3.07	-0.17	1.35	1.0	10	11	8	11	nw.	Prof. Wm. Frear.
Stroudsburg.....	Monroe.....	500	9	.....	.....	.....	.....	.....	.....	3.98	.....	.....	0.88	.....	11	23	3	4	.....	H. Q. Snyder.
Towanda.....	Bradford.....	754	26	53.7	+7.1	86	26	20	2	42	2.60	-0.40	1.19	3.0	9	13	7	10	s.	Hiram E. Bull, C. E.
Wellsville.....	Tioga.....	1,419	55	50.8	+6.2	85	26	20	2†	48	2.12	-1.52	1.21	0.2	8	22	0	8	nw.	George W. Hill.
West Chester.....	Chester.....	455	87	56.8	+7.1	81	25	25	11	36	3.30	+0.32	1.40	2.5	12	13	11	6	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	34	57.2	+8.6	91	25†	25	11	43	3.78	+0.36	1.64	0.1	9	14	5	11	se.	Jacob April.
York.....	York.....	400	33	58.4	+7.7	88	25	26	2	42	2.79	-0.16	1.01	T	11	13	10	7	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam††.....	Beaver.....	700	28	57.0	.....	87	25	27	11	43	3.45	+0.30	0.83	0.9	13	10	0	20	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	6	52.3	.....	90	25	21	12	49	2.52	.....	0.92	T	13	11	8	11	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	3	50.1	.....	81	25	15	12	45	3.30	.....	1.10	0.5	17	12	7	11	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	30	50.4	.....	88	8	17	11	50	1.53	-1.34	0.49	T	9	17	6	7	.....	John Fawcett.
Claysville.....	Washington.....	1,150	17	56.8	+6.2	90	27	24	19	44	2.63	-0.93	0.58	5.0	10	14	9	7	w.	E. T. Buchanan.
Corry.....	Erie.....	1,400	9	52.6	.....	85	25	24	11	45	5.06	.....	2.20	0.8	19	11	8	11	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	24	54.9	+5.6	87	25	24	1†	46	2.93	-0.81	0.80	1.0	10	15	5	10	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	3	50.7	.....	83	25†	14	11	47	2.45	.....	0.64	T	10	16	9	5	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	4	52.8	.....	85	25†	18	11	46	2.02	.....	0.70	T	10	13	9	8	w.	J. D. Miller.
Franklin.....	Venango.....	1,000	48	53.2	+6.9	84	25	22	12	41	3.86	+0.88	0.60	0.5	15	16	2	12	n.	F. E. Dixon.
Greensburg.....	Westmoreland.....	1,150	13	56.3	+5.															

Day of month.

Continued on page 16.

Daily Precipitation for April, 1921.—Continued from page 15.

Stations.	Drainage Basin.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Edinboro.....	Allegheny.....								.69	.16	.13			T.	.15	.29	.11	.93	.11			.02	.04	.41			.37	.26	.05	1.07	.18		4.97				
Elk Lick.....	Youghiogheny.....	T.							.70	.07	T.			T.	.39	.02	T.	.02				.09				.20	.04	.17	.36	T.		2.02					
Falls Creek.....	Allegheny.....	.26							.93	.19					.18	.18	.05	.04				.04	.46				.11	.17	.47	.08		3.16					
Franklin|||	Allegheny.....	.50							.50	.30	.02				.40		.20	.02	T.		.08	.09	.27	.04				.57	.60	.23		3.86					
Freeport|||	Allegheny.....	.59							.84	T.	.13				.05	.11		.11		T.	.03		.15	T.		.04	.03	.59	.67	.44		3.74					
Greensboro|||	Monongahela.....	.54							.60	.10	.08				.18		.06	.10										.60	.34	.12		2.72					
Greensburg.....	Youghiogheny.....	.37						T.	.56	.11	.02		T.	.01	.07	T.		.01			T.		.10				.13	.43	.82	.13		2.76					
Greenville.....	Beaver.....								.44	.40	.41				.12	.40	T.		.68				.15	.22				.34		.55		3.71					
Grove City.....	Youghiogheny.....							.25	.26	.37			.16	.11	.30	.25	T.	.10			T.		.11	.30		T.	.25	.20	.30	.20		3.16					
Herr's Isl. Dam|||	Ohio.....	.52							.39	.03	.05				T.	.05		.02	.02	T.		T.	T.	.06	.01		T.	.44	.30	.49		2.38					
Indiana.....	Conemaugh.....	.32							.63	.20					.13								.51				.05		.22	.78	.25		3.09				
Irwin.....	Youghiogheny.....	.37							.67	.13	T.				.01	.03	.02	T.	T.				.03	T.			.19	.28	.52	.23		2.48					
Johnstown.....	Conemaugh.....	.10						.22	.14	.21	.01		.02	.02	.10	.02	T.	.04			T.		.43	.01		T.	.01	.21	.41	.20		2.15					
Ketner.....	Allegheny.....	.05							1.05	.11					.13	.35	.05				.08		.46	.05				.15	1.33	.03		3.84					
Linesville|||	Beaver.....	.24						.04	.62	.24	.04			.02	.48		.64	.14				.10	.06	.48	.03		.03	.13	.23	.42	.14	4.08					
Lock No. 4|||	Monongahela.....	.57							.56	.07	.08					.02		.02				T.	T.	.01	.02				.48	.47	.21		2.51				
Lycippus.....	Conemaugh.....	.42								.18													.15					.17	.30	.80	.15		2.17				
New Castle|||	Beaver.....							.50	.30				.06	T.	.27		.21	.04	.01				.29	.02	.11	.01	.26	.62	1.23	.01		3.94					
North Shenango|||	Beaver.....									.76	T.			T.	.39		.45	T.			.14	T.	.33	.12			.24	.19	.52	.16		3.30					
Parkers Landing|||	Allegheny.....	.40							.72	.10	.15				.02	.30		.05	T.	T.		T.	T.	.34				.36	.76	.12		3.34					
Pennline|||	Beaver.....	.39							.18	.55	.20	.02			.01	.75		.80	.04			.08	T.	.71			.21	.19	.17	.16		4.46					
Pittsburgh***	Ohio.....							.36	.12	.06	T.		T.	.03	.01	.02	.01	T.			T.		.01	.02		T.	.40	.13	.38	.11		1.66					
Ridgway.....	do.....	.09								.24						.22	.01						.44					.16	.85	.05		2.05					
Saegertown.....	do.....																																				
Saltsburg|||	Conemaugh.....	.44						T.	.56	.07	.08				.04	.05			.02				.10	.67				.30	.62	.16		2.51					
Sharon|||	Beaver.....	.48							.37	T.	.24				T.	.43		.38	.10		T.		.57			.04	.19	.20	.50			3.60					
Somerset.....	Youghiogheny.....	.25							.51		.22				T.	.28	.12	.06	T.			.26	.30				.06	.27	.32	.15		2.80					
Springdale.....	Monongahela.....	.52							.32	.04	.05			.02	.05		.03	.01	T.			.01	.04	.02			.24	.56	.60	.16		2.67					
Summit|||	Beaver.....							.07	.74	.16	T.					.89	.10				.10		.64				.28	.10	.79	.13		4.10					
Tionesta.....	Allegheny.....								.85	.13					.32		.28	.02			.08	.05	.24				.02	.18		1.15		3.32					
Turnerville|||	Beaver.....	.34					.45			.30		.05			T.	.30	.60	.05			.10	.03	.50				.21	.20	.11	.15		3.39					
Uniontown.....	Monongahela.....	.35						T.	.75	.15	.04			T.	.21	.03	T.	T.			.10	.03		.26			.38	.25	.72	.23		3.40					
Vandergrift.....	Conemaugh.....	.42							.52	.12			.04	.04	.10	.12											.07	.27	.73	.11		2.54					
Warren.....	Allegheny.....	.68						.10	.34	.05					.04	.10		.44	.10			.08		.18					1.32			3.43					
Westford|||	Beaver.....	.47						T.	.39	.30	T.			T.	.40		.65	.05			.14		.55				.22		.71	.12		4.00					
West Newton|||	Youghiogheny.....	.36							.48	.05	.02			T.	.02		.05							T.	.02			.41	.55	.48		2.44					
Lake Drainage.																																					
Erie***	Lake Erie.....								.58	.10	T.		.01	T.	.10	.22	.29	.79	.03		T.	.15	.03	.29	T.		T.	.18	.15	.56	.10		3.58				
West Bingham.....	Genesee.....								.45	T.						.14	.10	.05	T.			.05	.02	1.02			.30		.40	.20	T.		2.73				

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T. (trace) when precipitation is less than .01 inch. ‡ Incomplete or missing.

Daily Temperatures for April, 1921.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
Altoona.....	Maximum... 44	64	78	82	80	78	71	65	59	47	45	58	67	70	73	73	69	41	63	69	70	72	72	78	85	81	72	60	64	52	....	66.7
	Minimum... 27	28	42	47	46	43	46	47	47	31	18	27	39	45	48	41	30	34	45	48	47	55	48	52	57	54	49	51	41	....	43.9	
Brookville.....	Maximum... 43	64	75	79	82	82	80	88	58	36	46	59	68	71	69	75	65	42	63	68	70	74	64	78	86	82	70	59	63	50	....	67.0
	Minimum... 24	20	30	32	33	32	37	53	32	21	17	19	29	36	42	40	31	26	21	28	38	37	25	39	38	47	50	50	47	41	....	33.3
Catawissa.....	Maximum... 44	36	76	86	84	82	66	62	71	46	50	64	75	74	72	72	78	57	67	76	72	74	61	73	91	89	80	74	74	66	54	69.3
	Minimum... 33	22	26	36	42	44	46	46	46	34	26	24	37	43	57	54	67	33	33	43	41	45	54	45	45	40	48	54	54	48	....	42.2
Chambersburg.....	Maximum... 65	63	75	79	77	75	73	55	68	58	49	62	71	69	76	74	76	64	66	73	77	74	71	75	85	82	75	64	65	57	....	69.8
	Minimum... 34	25	37	39	40	42	47	46	53	38	26	25	37	41	57	51	56	36	31	32	41	43	56	50	47	52	54	51	55	49	....	43.0
Emporium.....	Maximum... 43	62	73	78	79	80	77	70	60	45	45	59	68	71	70	73	62	40	63	67	68	72	68	75	85	85	74	63	61	50	....	66.3
	Minimum... 29	23	33	34	35	35	43	52	48	28	18	21	34	38	54	43	33	31	26	29	43	45	55	43	41	45	49	51	48	45	....	62.0
Erie.....	Maximum... 86	64	67	72	76	76	81	77	59	39	41	53	63	67	59	48	34	45	58	70	64	73	61	78	80	82	72	61	56	48	....	68.4
	Minimum... 30	34	44	57	55	57	59	57	39	28	29	38	50	53	48	33	30	30	36	49	51	47	46	46	63	64	52	48	47	42	....	45.4
Grove City.....	Maximum... 43	58	71	77	80	78	78	76	61	47	43	56	64	66	71	63	63	47	63	68	66	75	67	76	81	81	80	77	70	66	....	67.2
	Minimum... 28	29	38	41	42	46	50	53	39	30	23	26	50	45	52	46	35	29	28	38	42	46	52	42	46	61	57	41	51	42	....	41.6
Harrisburg.....	Maximum... 46	61	74	79	78	75	62	57	69	47	50	60	72	70	75	68	76	43	66	71	75	74	65	76	87	79	67	72	60	54	....	66.9
	Minimum... 34	31	49	49	50	52	47	45	47	32	28	37	44	48	59	61	4	35	35	46	50	54	58	54	58	50	56	54	50	49	....	46.9
Holtwood.....	Maximum... 44	57	66	72	81	81	61	60	72	54	46	57	67	72	73	79	46	61	70	77	79	72	70	79	73	68	73	75	73	72	....	67.4
	Minimum... 36	34	43	50	52	52	50	50	50	33	32	36	45	53	57	62	46	39	37	43	54	56	57	53	57	55	55	69	66	....	49.3	
Indiana.....	Maximum... 44	65	77	83	86	85	84	80	73	49	47	58	67	72	74	79	71	41	63	68	71	75	74	80	87	82	80	60	65	61	....	70.8
	Minimum... 27	25	36	43	46	40	52	52	40	30	19	24	39	45	55	49	40	30	24	34	43	44	53	43	49	58	59	52	51	38	....	41.3
Mount Pocono.....	Maximum... 43	39	60	66	74	75	62	53	49	33	34	61	72	68	60	52	50	40	40	45	58	59	60	61	75	76	74	70	66	64	....	57.4
	Minimum... 10	20	35	42	51	50	40	30	19	28	26	46	42	50	40	40	30	29	36	40	41	43	44	52	55	52	50	49	49	46	....	38.7
Philadelphia.....	Maximum... 60	57	73	79	78	78	62	67	71	55	51	62	71	73	67	74	72	52	61	73	78	75	70	74	82	78	71	68	66	58	....	68.5
	Minimum... 35	33	46	51	54	55	45	45	51	38	29	37	47	54	58	58	52	38	37	45	52	58	60	56	56	53	50	56	56	51	....	48.5
Pittsburgh.....	Maximum... 45	65	74	80	81	79	80	78	59	42	46	58	62	68	72	71	64	47	62	70	68	77	66	80	84	82	71	67	63	52	....	67.1
	Minimum... 31	36	49	53	51	54	60	57	41	27	26	33	49	52	57	54	32	31	34	49	58	55	52	49	56	63	56	50	46	39	....	46.7
Reading.....	Maximum... 44	61	73	81	79	77	63	61	69	51	49	61	71	73	70	69	75	46	65	71	77	75	66	74	85	77	69	71	63	56	....	67.4
	Minimum... 34	29	46	56	53	55	52	44	43	47	30	28	35	47	52	57	61	46	36	35	42	52	58	56	54	52	50	55	55	50	....	46.9
Scranton.....	Maximum... 36	59	72	80	81	81	64	66	62	43	46	62	69	74	73	70	66	40	61	70	72	77	64	70	85	89	77	72	71	57	....	67.7
	Minimum... 29	25	44	46	48	50	47	45	42	28	25	30	45	47	57	58	35	32	36	38	47	53	54	53	50	59	51	52	52	49	....	44.2
Somerset.....	Maximum... 50	62	76	82	84	78	74	70	72	44	40	50	63	68	70	71	55	55	50	68	69	70	72	78	85	78	75	53	64	60	....	66.2
	Minimum... 30	35	42	45	60	42	46	55	40	26	18	25	38	42	45	28	26	30	35	41	45	45	46	65	70	50	48	48	38	....	41.4	
State College.....	Maximum... 39	64	69	74	79	77	71	56	58	44	46	58	67	70	78	70	70	40	63	76	65	70	65	71	86	85	67	58	58	52	....	64.9
	Minimum... 27	27	44	49	49	49	52	45	42	29	21	30	41	41	51	47	38	29	31	42	44	46	53	46	48	56	51	49	49	42	....	42.6
Towanda.....	Maximum... 45	62	58	82	80	83	75	68	62	45	44	60	70	75	73	72	63	38	62	68	72	74	66	70	85	86	70	70	68	61	....	67.1
	Minimum... 29	20	32	37	41	46	44	42	45	28	22	23	40	41	57	46	35	31	31	30	44	45	55	50	43	49	52	56	48	45	....	40.2
Uniontown.....	Maximum... 44	64	77	83	85	82	81	80	74	53	46	59	70	72	76	76	69	45	63	71	71	80	73	80	86	89	81	62	68	54	....	70.5
	Minimum... 30	29	45	43	43	40	58	57	51	33	24	26	43	55	61	52	45	33	27	42	50	46	52	44	48	57	57	51	53	40	....	44.8
Warren.....	Maximum... 42	48	74	79	83	85	82	78	72	40	45	60	69	70	75	75	52	45	63	68	67	73	68	79	86	84	74	68	65	50	....	67.0
	Minimum... 28	26	26	38	39	40	42	54	40	25	22	23	38	42	52	46	30	25	31	46	45	51	43	45	52	54	48	48	50	43	....	39.1
Wellsboro.....	Maximum... 40	62	75	83	82	83	79	60	60	41	40	62	67	72	70	70	50	33	63	65	68	69	65	73	84	85	72	65	58	55	....	65.0
	Minimum... 29	20	28	35	35	38	40	45	37	25	20	22	37	37	50	40	32	27	27	28	38	43	52	46	40	44	45	48	45	41	....	36.5
Williamsport.....	Maximum... 54	66	72	84	80	77	76	60	68	52	50	64	72	72	77	76	74	66	67	72	72	72	70	78	91	78	70	69	55	....	70.7	
	Minimum... 32	26	38	42	45	45	48	47	52	37	25	30	42	44	57	49	45	34	33	37	43	46	57	49	48	53	53	54	53	48	....	43.3

JUN 24 1921

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

VOL. XXVI PHILADELPHIA, PA., MAY, 1921. No. 5.

GENERAL SUMMARY.

May this year averaged both warmer and wetter than last year, although there was not sufficient rainfall during the latter part of the month in most sections east of the mountains.

At the beginning of the month crops were in good to excellent condition. Corn planting had begun in some places; the earliest potatoes were just coming up; truckers were busy planting their main crops. During the week ending with the 10th there was little opportunity for outdoor work on account of rainy weather, and vegetation, though still somewhat ahead of the season, appeared to lose some of the start that was so plainly evident late in April. Not until after the rains of the 12th-14th did the fields get into condition suitable for the planting and cultivating operations so important at that time. By the time of the next general rains farm work had been brought up to quite a satisfactory status, and the large percentage of sunshine had made some improvement in the condition of the crops. Wheat, rye, and oats did especially well. Truck crops and vegetables also made good growth, and were coming to market in good supply before the close of the month.

Damage from frosts, hail, etc., during the month was not unusual. Some injury to vegetables resulted from hail in the vicinity of Somerset on the 23d. Frosts and freezing temperatures occurred quite extensively on the 17th, but the main truck and vegetable sections were not affected, so the injury was slight.

TEMPERATURE.

The average temperature for the State, as determined from the records of 81 stations, was 59.8° or 0.6° below the normal. The highest monthly mean temperature was 62.8° at Newell and Shamont; the lowest was 53.6° at West Bingham. The highest temperature, 93°, was recorded at Stroudsburg on the 22d, and the lowest, 22°, at West Bingham on the 17th. These extremes show about the range experienced in May of most years. Freezing temperatures were reported at a little more than half of the stations in the Ohio drainage basin and at about one seventh of those in the Atlantic drainage basin.

PRECIPITATION.

The average rainfall, as determined from the records of 131 stations, was 3.93 inches, which is 0.26 inch above normal. Locally the amounts varied greatly, 8.17 inches being recorded at Ardentsville, and only 0.79 inch at Erie. Many of the stations in or near the mountain regions reported rainfall exceeding 6.00 inches, but throughout the counties bordering Ohio and New York there was a deficiency in rainfall as compared with the May normal.

Rain occurred with about the usual frequency with no very long intervals between in any part of the State. The heaviest rains came on the 4th or 5th at most stations in the eastern half of the State. In some places, as at Philadelphia, there was not enough rain after the 12th for the needs of most kinds of vegetation. In the western part of the State, however, the soil did not become too dry, for heavier rains occurred on the 25th and 28th, giving the ground a good supply of moisture closely following the warmest weather.

G, W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.					
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.				
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.	
Erie.....	244.3	451.8	54	74	71	9,185	12.3	50	se.	12	
Harrisburg.....	292.5	446.2	66	68	62	2,695	3.6	24	ne.	23	
Philadelphia.....	263.8	446.2	59	76	71	7,805	10.5	37	ne.	4	
Pittsburgh.....	274.2	449.0	61	72	62	7,264	9.3	44	nw.	13	
Reading.....	248.0	446.0	56	68	61	3,957	5.3	28	ne.	4	
Scranton.....	.....	.....	.....	76	58	5,321	7.2	38	ne.	4

* For any five-minute period.

COMPARATIVE DATA FOR MAY.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	57.3	91	24	4.24	8.41	2.26	.....	.....	.....
1889.....	60.4	96	25	5.91	12.41	2.51	.....	.....	.....
1890.....	58.5	89	23	6.71	12.41	2.96	7	11	13
1891.....	57.3	93	20	2.12	4.41	0.31	10	10	11
1892.....	58.5	91	28	5.70	9.30	3.77	7	10	14
1893.....	57.9	93	26	5.54	9.20	2.92	11	8	12
1894.....	60.8	92	27	8.88	15.02	2.72	9	8	14
1895.....	60.6	110	22	2.68	6.46	0.86	13	10	8
1896.....	65.4	98	31	2.85	6.30	1.19	10	12	9
1897.....	57.7	88	25	5.24	10.05	1.71	11	10	10
1898.....	60.0	94	22	5.11	10.15	2.79	8	9	14
1899.....	61.1	100	24	3.82	6.40	1.15	10	11	10
1900.....	60.4	96	20	2.79	7.63	0.72	13	9	9
1901.....	58.9	91	28	5.56	7.96	2.24	8	9	14
1902.....	59.8	95	25	1.96	4.45	0.29	13	11	7
1903.....	61.8	94	18	1.67	4.65	0.22	16	9	6
1904.....	61.6	94	21	3.78	7.50	2.07	12	10	9
1905.....	60.8	93	22	4.59	5.17	0.56	11	9	11
1906.....	60.0	99	23	3.23	5.59	0.93	12	10	9
1907.....	54.8	91	19	3.08	6.38	1.44	11	9	11
1908.....	61.2	96	22	6.28	10.95	3.19	10	10	11
1909.....	59.2	92	23	2.90	5.52	1.51	12	10	9
1910.....	56.8	88	24	3.38	6.08	1.73	11	10	10
1911.....	65.2	99	20	1.97	6.81	0.42	17	10	4
1912.....	61.2	91	28	3.15	5.99	0.99	14	8	9
1913.....	58.5	93	21	3.86	6.45	0.48	13	8	10
1914.....	61.5	96	19	3.34	6.52	0.90	16	9	6
1915.....	56.2	84	21	4.16	7.45	2.29	10	8	13
1916.....	61.0	93	26	3.19	6.09	1.49	12	11	8
1917.....	53.3	90	20	3.39	8.09	1.65	9	10	12
1918.....	65.1	95	21	5.04	8.37	1.81	13	12	6
1919.....	59.5	98	27	5.80	13.59	2.86	13	7	11
1920.....	56.6	92	18	2.02	3.65	0.67	17	8	6
1921.....	59.8	93	22	3.93	8.17	0.97	14	8	9

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	3.6	6.3	2	2.3	24	18
Phillipsburg.....	Delaware.....	.....	.....	.....	.....	.....	.....
Mauch Chunk.....	Lehigh.....	5.0	6.0	1	4.5	31	15
Wilkes-Barre.....	Susquehanna.....	5.4	9.2	3	3.5	25	20
Williamsport.....	Susquehanna.....	4.6	9.2	7	2.4	23	20
Harrisburg.....	Susquehanna.....	5.7	9.8	6	4.3	24	17
Freeport.....	Allegheny.....	6.1	11.7	1	3.4	23	22
West Newton.....	Youghiogheny.....	3.8	8.9	26	2.0	22	20
Greensboro.....	Monongahela.....	9.9	15.8	30	8.0	22	20
Pittsburgh.....	Ohio.....	6.3	10.4	31	4.2	29	22
Beaver Dam.....	Ohio.....	9.9	15.0	31	5.8	20	30

Climatological Data for May, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.			Prevailing direction of wind.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 0.1 in. or more.	Clear.			Pt. cloudy.	Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	34	58.4	-1.0	84	21	34	17	36	4.87	+0.90	0.99	0	16	13	9	9	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	37	61.4	-1.6	89	22	39	17	38	3.30	-0.44	1.44	0	5	3	23	5	ne.	Prof. Chas. H. Rominger.
Bustleton.....	Philadelphia.....	125	2	61.6	.....	87	22	41	24	35	4.48	.....	2.30	0	8	16	8	7	sw.	Experiment Station.
Carlisle.....	Cumberland.....	467	54	61.4	+1.2	90	22	40	7	36	6.68	+2.84	2.13	0	12	15	6	10	ne.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	24	60.6	-0.8	91	21	33	17	42	3.46	-0.26	0.81	0	11	20	1	10	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	25	59.9	+0.1	88	22	34	17	38	4.31	+0.69	1.05	0	9	19	4	8	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	21	60.3	-0.9	87	22†	36	7	39	6.29	+2.64	2.29	0	13	11	9	11	ne.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	11	60.2	-0.1	91	20	30	17	49	6.16	+1.46	2.40	0	13	16	8	7	sw.	E. W. Hess.
Coatesville.....	Chester.....	380	33	61.6	-0.1	90	22	39	17	40	4.14	+0.06	1.74	0	9	10	11	10	ne.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	11	60.3	.....	89	22	38	17	38	4.88	.....	1.37	0	15	17	4	10	n.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	33	57.1	-1.6	86	21†	29	16	42	5.02	+0.58	1.73	0	10	14	7	10	w.	T. B. Lloyd.
Everett.....	Bedford.....	1,080	23	54.2	-5.6	84	21†	34	17	41	2.49	-1.10	0.63	0	10	16	13	2	n.	J. E. Thropp Co.
Freeland.....	Luzerne.....	.....	6	56.6	.....	84	22	33	17	29	4.04	.....	0.92	0	15	10	11	10	sw.	Theo. Reichmann.
George School.....	Bucks.....	190	14	59.8 ^a	-1.2	88	22	38	17	39	4.49	+0.95	2.15	0	13	15	8	8	e.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	47	61.8	+0.5	91	22	40	2	39	8.02	+4.09	2.40	0	13	12	9	10	w.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	340	17	5.83	-0.2	84	22†	30	17	42	4.74	+0.94	1.20	0	11	17	3	11	e.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	28	.....	.....	.....	.....	.....	.....	.....	6.84	+2.23	2.00	0	14	20	1	10	ne.	State Sanatorium.
Hanover.....	York.....	600	17	62.5	+1.4	90	22	39	2	35	5.91	+2.75	2.18	0	12	17	5	9	s.	Miss Olive M. Ryder.
Harrisburg.....	Dauphin.....	361	51	61.4	-0.7	89	22	45	17	28	3.94	+0.16	1.23	0	11	7	13	11	e.	U. S. Weather Bureau.
Huntingdon.....	Huntingdon.....	650	33	60.6	-0.1	91	21	34	17	45	6.01	+1.71	1.25	0	13	9	12	10	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	1	61.7	.....	92	21	34	17	44	6.11	.....	1.97	0	12	16	7	8	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	49	59.4 ^a	-0.9	86	22	41	17	32	.....	.....	.....	.....	15 ^a	6 ^a	9 ^a	.....	ne.	W. P. Mercer.
Lancaster.....	Lancaster.....	255	33	61.5	+0.5	91	23	35	17	43	3.39	+0.09	0.85	0	14	18	5	8	e.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	23	58.0	+0.5	90	22	30	17	45	2.25	-1.52	0.60	0	6	16	8	7	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	80	62.1	+1.1	91	22	41	17	37	4.75	+0.66	1.02	0	12	16	7	8	se.	S. B. Benzing.
Lewisburg.....	Union.....	450	46	60.8	+2.3	91	22	34	17	39	4.77	+0.83	1.15	0	12	10	12	9	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	33	60.0	-1.9	92	21†	32	17	44	7.22	+3.53	1.65	0	13	4	19	8	w.	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	6	60.0	.....	90	22†	32	17	44	4.48	.....	2.04	0	9	18	6	7	nw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	1	61.8 ^a	.....	86	22	44	18†	33	3.43	.....	2.02	0	10	6	16	9	sw.	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	31	60.0	-0.1	90	22	39	17	43	3.58	-0.47	1.30	0	7	17	7	7	w.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	17	59.8 ^a	-0.9	90	22	33	17	.....	7.75	+4.12	1.70	0	14	12	9	10	w.	Wellington Smith.
Milford.....	Pike.....	500	18	58.2	+0.7	90	22	33	2	50	1.80	-1.23	0.75	0	4	13	13	5	w.	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	18	55.4	+0.4	85	22	33	17	33	2.81	-0.93	0.60	0	10	17	9	5	s.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	19	56.2	+1.5	76	21†	37	5	23	4.61	+0.95	2.00	0	8	14	5	12	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	9	59.2	.....	88	22	32	17	45	2.67	.....	0.71	0	9	18	6	7	.....	A. H. Boatman.
Narberth.....	Montgomery.....	300	2	60.8	.....	89	22	41	17	33	4.61	.....	2.49	T.	11	10	9	12	ne.	Charles Decker.
Neshaminy Falls††	Bucks.....	60	32	60.5	.....	90	22	39	17	40	4.23	.....	2.18	0	10	15	4	12	n.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	4	59.8	.....	89	22	40	2†	38	2.98	.....	1.24	0	9	11	16	4	ne.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	50	62.4	-0.4	90	22	45	6	32	3.42	-0.28	1.88	0	11	7	10	14	sw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	5	61.5	.....	88	22	42	6	35	4.00	.....	2.01	0	12	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	10	61.7	.....	91	22	35	9†	48	.....	.....	.....	.....	16	10	.....	.....	w.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	36	59.6	.....	90	22	36	17	41	3.63	-0.44	1.30	0	8	13	12	6	nw.	John E. Benner.
Reading.....	Berks.....	325	51	61.4	-0.5	88	22	43	17	30	3.34	-0.28	1.44	0	9	7	7	17	nw.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	10	61.7	.....	87	22	40	17	35	4.41	.....	1.86	0	11	12	8	11	w.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	26	60.1	+0.6	87	21	38	17	33	2.28	-0.74	0.55	0	11	6	14	11	ne.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	31	60.7	-0.4	87	22	35	17	36	4.77	+0.67	0.90	0	12	11	12	8	sw.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	25	62.8	.....	88	22	43	17	34	4.10	+0.69	1.70	0	8	12	12	7	nw.	W. S. Gules.
State College.....	Center.....	1,217	36	56.8	-2.3	85	22	36	17	34	5.69	+1.76	1.18	0	13	14	10	7	ne.	Prof. Wm. Frear.
Stroudsburg.....	Monroe.....	500	9	62.4 ^a	.....	93 ^a	22	.....	.....	42	3.65	.....	1.27	0	10	25	3	.....	H. Q. Snyder.	
Towanda.....	Bradford.....	754	26	58.4	+4.5	88	21†	32	17	39	2.36	-0.82	0.56	0	11	10	13	8	e.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	55	55.9	-0.9	90	21	27	17	48	3.78	-0.24	1.36	0	11	15	8	8	w.	George W. Hill.
West Chester.....	Chester.....	455	87	60.4	-0.3	87	22	40	17	32	3.96	-0.47	1.58	0	12	17	7	7	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	34	61.0	+0.4	92	22	35	17	36	4.02	+0.99	0.67	0	13	14	6	11	nw.	Jacob April.
York.....	York.....	400	33	60.2	-1.5	89	22	36	2†	45	4.98	+1.41	1.44	0	12	17	5	9	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam††	Beaver.....	700	28	62.4	.....	89	24	36	16†	39	2.40	-0.65	0.83	0	14	11	4	16	ne.	U. S. Engineer.
Bradford.....	McKean.....	1,427	6	57.2 ^a	.....	92	21	26	17	46	3.32	.....	1.38	0	13	8	14	9	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	3	56.8	.....	86	28†	27	16	46	2.02	.....	0.46	0	11	11	9	11	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	30	56.4 ^a	.....	87	21	27	17	47	2.20	-1.43	0.60	0	10	18	6	7	.....	John Fawcett.
Claysville.....	Washington.....	1,150	17	61.2	-0.1	88	20†	32	17	44	3.96	+0.50	1.50	0	13	12	9	10	w.	J. L. Melvin.
Corry.....	Erie.....	1,400	9	57.4	.....	89	21	28	17	38	1.82	.....	0.57	0	13	13	10	8	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	24	60.3	-1.2	91	20	29	17	49	2.56	-0.86	0.65	0	11	18	6	7	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	3	57.0	.....	82	22†	27	17	44	4.92	.....	1.12	0	12	17	9	5		

Daily Precipitation for May, 1921.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown	Lehigh	.50	.08			1.70	.02						.92	.09										.18	.16	.16	.08		.08	.02	.01	3.82	
Altoona	Juniata	.26	T.	.38	.99	.62		.14				.04	.62	.12	.07								.01	.16	.15	.37		.33	.60	.01		4.87	
Ansonia	N. Br. Susq.	.14	.05		.09	.60	.28		T.				T.	.22	.17									.65		.07	.20		.04	.37	T.	2.88	
Arendtsville	Potomac	.47		.50	1.58	.57	.02					T.	2.82	.22	.15											.35		.39	1.08	.02		8.17	
Austin	W. Br. Susq.																						.35					.48	.23			3.90	
Bellefonte	do	.41	.53	.30	.27	.61	.57	.15																								3.30	
Bethlehem	Lehigh	.23			.28	1.44							1.05													.30						7.69	
Bloersville	Lower Susq.	.30		.20			3.10						2.50											.22		.32			.93	.12		4.48	
Bustleton	Lower Del.	.32		.01	2.30	.41							.91											.09		.17			.27			6.68	
Carlisle	Lower Susq.	.29		.09	1.22	.74	.07	T.					1.60	.53	.76									.16	T.	.28		T.	.80	.14		3.41	
Catawissa	N. Br. Susq.	.56		.02	.76	.16							.55	.26		T.								.08	.14		.27		.56	.05		4.36	
Center Hall	Susquehanna	.32			1.05	.94		.04					.38		.15														.78	.12		6.29	
Chambersburg	Potomac	.56		.21	1.47	.22	.07	T.				.02	2.29	.17										.05		.51		.03	.68	.01		6.16	
Clearfield	W. Br. Susq.	.32	.06	T.	.60	.85		.05					.50	.02										.45	.03	.33		2.40	.40	.15		4.14	
Coatesville	Lower Del.	.25			1.74	.18							.98	.25										.24		.19		.02	.29			4.88	
Colebrook	Lower Susq.	.37	.03	.25	1.37	.11	.01						T.	.53	.41	.38								.67		.10		.20	.30	.11	.04	4.92	
Cresson	Juniata	.20	.15	.35	1.15	1.07	.02	.10				.04	.49	.02	.15									.04	.10	T.	.54		.30	.10	.10	4.41	
Doylestown	Lower Del.	.38	.03		1.68	.19							1.11			.05								.08		.27			.08	.54	T.	4.92	
Driftwood	W. Br. Susq.	.01		.02	.20	.70		T.					.60	.30										.02	.04	.30	1.00		1.30	1.59		6.18	
Emporium	W. Br. Susq.	.12			.25	.23		.04					.38	T.										T.	1.22	.16	.10		1.73	.79		T.	5.02
Everett	Juniata		.12	.15	.46	.28		.16				.16												.30	.03	.63		T.	.20			2.49	
Freeland	Lehigh	.71	.59		.06	.41	.10						.02	.19	.30	.08								.24	.03	.18	.08		.28	.04		4.04	
Forest City	N. Br. Susq.	.06	.09			.11							.59		.29									.33		.72		.44	.44			3.07	
George School	Lower Del.	.69	.02	T.	2.15	.36	.01						T.	.77	.02	.05	T.							.01	T.	.26	.01		.13	.01		4.49	
Gettysburg	Potomac	.48		.08	2.06	.29	.07						2.40	.60	.46									.02		.46		.06	1.01	.03		8.02	
Girardville	Schuylkill	.41			.96		.08						.93	.19										.13	.19		.19		.23	.15		3.46	
Gordon	Lower Susq.	.36	.07		.90	.98							.02	1.20	.15									.34		.28			.37	.07		4.74	
Gouldsboro	Lehigh	1.20	.16		.08	.53	.08						.61			.05								1.26		.61			.08			4.66	
Graterford	Schuylkill	.38		.06	1.95			.14					.22											.02		.06	.22					3.05	
Hamburg	Schuylkill	.18		.16	1.58	2.00							1.20	.10	.50	.40								.10	.02	.26		.70	.41	.04		6.84	
Hanover	Lower Susq.	.28		.03	2.18	.20	.06						1.28	.68	.66									.02		.45	.01		.06		T.	5.91	
Harrisburg	do	.42		.07	1.08	.08	.01					.01	1.23	.04										.19	T.	.13		.68	T.			3.94	
Holtwood	Lower Susq.	.37		.69	.70	.05							.03	.90	.06	T.								.02	.06	.14	.25		.40			3.67	
Huntingdon	Juniata	.24		.26	1.25	.91		.09				T.	.93	.01	.53									.23	T.	.34		1.02	.16	.04		6.01	
Jersey Shore	W. Br. Susq.	.51			.46	1.03	.02	T.					.13	.18	.35									.47		.09			.87	1.97	.03		6.11
Kennett Square	Delaware					.42	.02						.06	.53	.37		.08							.10					.07	.56		3.39	
Lancaster	Lower Susq.	.24	.12	.03	.85								.01	.13	.13									.06	T.	.19						3.11	
Lansford	Lehigh	.68		T.		.60							T.	.05	T.									.40		.50			.45			2.25	
Lawrenceville	N. Br. Susq.	.25	T.	T.									T.	.05	T.																	4.75	
Lebanon	Lower Susq.	.38	.09	T.	.72	.61	.15						.22	.81	.15	T.								.22		.22		T.	1.02	.26		4.77	
Lewisburg	W. Br. Susq.	.66			.92	.56		.01					.22	.57	.25									.14		.22		.03	1.15	.14		2.84	
Lloyd	Pine Creek	.12			.10	.61						.10	.11	.19											.39		.72					7.22	
Lock Haven	W. Br. Susq.	.80		.53	.70	.93		.60					.29	.07	.12									.55	T.	.14		1.65	.36	.48		4.48	
Lykens	Susquehanna	.70		.06	2.04	T.	T.						.15	.42		.03	.01							.28		.22			.54	.07		3.43	
Marcus Hook	Delaware	.11	.01		2.02	.16							.96	.01											.11		.11		.01			3.58	
Mauch Chunk	Lehigh	.28			1.30								1.74	.14											.46	.30	.10		.80	1.25	.17		7.75
Millintown	Juniata	.08		.28	1.70	.80	.01						1.30	.34	.16																	1.80	
Millford	Upper Del.					.05							.75												.25	.75			T.			2.81	
Montrose	N. Br. Susq.	.30		.05			.35	.15					.35	.12											.20	.60			.58	.11		4.61	
Mount Pocono	Juniata	2.00			.01	.10							1.20												.60	.50	T.		.10	.10		4.57	
Mount Union	Upper Del.	.86		.19	1.29	.73		T.					.94	.24	.32																	2.67	
Muney Valley	W. Br. Susq.	.24			T.	.36	.05		.02				T.	.41	.45									.71		.17			.26			4.61	
Narberth	Lower Del.	.38		T.	2.00	.49							15	.11	.02	.06								.15		.15		.08	.02	T.		4.77	
Neshaminy	Lower Del.	.15	.51		.18	2.18							.75	.02		.09										.02	.15		.21	.12		4.23	
Palmerston	Lehigh	.15		.01	1.24								.82	.30	.08									T.		.18		.14	.06			4.10	
Philadelphia (a)	Lower Del.	.19		T.																													

Daily Precipitation for May, 1921. —Continued from page 19.

Stations.	Drainage Basin.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Creekside	Allegheny			.30	.48	.62						T.	.01	.01	.19										.60								2.00				
Davis Isl. Dam	Ohio	.02	.03		.20	.40			.02			T.	.01	.01	.19										.02	.94			.01	.48	.09		2.42				
Derry	Conemaugh	.23	.04	.22	.40	.40	.05						.20											.14	.65						.17	.06	2.56				
Ebensburg	Conemaugh	.36	.03	T.	1.12	.81		.05				.07	.38											.12	.54					.30	.84	.30	4.92				
Edinboro	Allegheny		.03	.14									.04	.27										.45	.33					.94	.14		2.34				
Elk Lick	Youghiogheny	.08		.44	.75	.62	.06	.12				T.	.48	.02	.05								1.25	.22	1.07		T.			.50			5.66				
Falls Creek	Allegheny	.08		.18	.26	.28			.06				.19		.04								.21	T.	.31				.05	1.42			3.08				
Franklin	Allegheny	.04			.05	.17	.02						.02	.43	.12								.32	T.	.50				T.	.50	.08		2.25				
Freeport	Allegheny	.02	.08		.17	.50	T.		.06				.07	.02	.09									.04	.05	.75				.31	.38		2.62				
Greensboro	Monongahela		.14		.36	.62	.04					.08	.08	.18	.14										.50	2.70				.30	.70		5.84				
Greensburg	Youghiogheny	.05	.03	.05	.44	.42		.02	.05			.03	.06	T.	.03	T.							T.	.05	.02	.86				T.	.31		2.42				
Greenville	Beaver		.03		.10									.40					T.				1.02		.67			.18	.81		.14		3.35				
Grove City	Youghiogheny	T.	T.	.03	T.	.05							T.	.08	.07									T.	.35		.40			.25	1.00	.42	2.65				
Herrs Isl. Dam	Ohio	.03	.04	T.	.17	.36	T.		.09				T.	T.	.19									T.	.01	.37				T.	.31	.28	2.35				
Indiana	Conemaugh	.18	.05	.05	.63	.45							.35		.01	.65								.26		.76			.90	.65			4.29				
Irwin	Youghiogheny	.08	.01	.03	.45	.20	T.	.03	.08			.04	.03		.09									.07	T.	.95			.08	.47			2.61				
Johnstown	Conemaugh	.17		.14	.99	.18	.02	.08				.07	.35	.08										.13	.07	.78		T.	.28	.92	.01		4.27				
Ketner	Allegheny				.10	.20							.20	.07	.11									.97		.14			.91	.09			2.79				
Linesville	Beaver	.04	.02		.04	.08							T.	.01	.15									.39		.59			.32	2.27			3.91				
Lock No. 4	Monongahela	.04	.03		.21	.50	.03		.15			.07	.01	.02	.05									.01	.07	1.23			.05	.16	.87		8.00				
Lycippus	Conemaugh	.17		T.	.65	.42							.12		.02	.36								.02	.03	.82			.16	.36			2.77				
New Castle	Beaver	.03	.01	.01	.20	.01							.09	.19	.01										.55			.09	.46	.01		.10	1.76				
Newell	Fayette	.04		.01	.37	T.		.04				.11	.04	.07										.31		1.13		.01	.31	.47			2.73				
North Shenango	Beaver	.12	T.										T.		.14									.45		.71			.31	1.55			3.28				
Parkers Landing	Allegheny	T.	T.		.18	.18			T.				T.	.04	.15	.93								.10	T.	.40			.40	.93			2.43				
Pennline	Beaver				.03	T.								.13										.23		.69			.53	.68			2.26				
Pittsburgh**	Ohio	.03		.16	.32	.04		.06				T.	.01	.20	.01									T.	.01	1.09		T.	.06	.28	.22		2.49				
Ridgway	do				.17	.09							.34		.01										1.25	.24			.85	.23			4.04				
Saltsburg	Conemaugh	.05	.09	.01	.46	.43	.09		.10				.07	.05	.09									.86	1.25	.24			.23	.23	.06		2.57				
Sharon	Beaver	T.	T.		.04	.03							T.	.22											.02	.46			.14	.58			1.49				
Somerset	Youghiogheny	.22	.06	.22	1.10	.52	.22	.20				.11	.22	.15										.54		.91		T.	.22	.86	.56		6.11				
Springdale	Monongahela	.01	.04	.27	.58									.03	.15											.46			.14	.58			1.49				
Summit	Beaver			.06											.12										.11	.46		T.		.57	.02	.04	2.28				
Tionesta	Allegheny				.02	.17		.02					.07	.18										.83		.61			.45	.95			3.06				
Turnerville	Beaver													.18										.28		.56			.81				2.11				
Uniontown	Monongahela	.02	T.	.13	.66	.33	T.	.17				.10	.04	.16	.19									T.	.75	1.24			.72	.30	.09		4.30				
Vandergrift	Beaver	.08	.11	.09	.28	.31		.12				.06	.03	.02											.10		.90		.68	.37			3.15				
Warren	Allegheny			.02		.04							.02		.18										1.13		.06			1.00	.26		.15	2.86			
Waynesburg	Green		.11		.12	.65		.05						.25											.78		3.25						5.73				
Westford	Beaver	T.	.03			.10							T.		.12										.40		.52			.25	1.63			3.05			
West Newton	Youghiogheny	.05	.09		.33	.46	.03		.24			T.	.05	.05	.09									.33	.02	1.20	T.		T.	.22	.16		3.32				
Lake Drainage.																																					
Erie***	Lake Erie	T.		T.									T.	.33						T.						.07	.11	.11		.23	.05			0.97			
West Bingham	Genesee	.33	T.	.05	.05	.10		T.					.17	.02	.10									T.	1.33	T.	.50			.70	.21		.05	3.61			

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

Daily Temperatures for May, 1921.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.		
Altoona.....	Maximum ...	44	56	56	49	48	63	65	71	74	77	68	52	68	72	71	62	70	76	77	79	84	83	80	70	77	72	72	81	74	78	80	69.8	
	Minimum	39	40	43	46	42	42	39	43	44	45	48	42	50	49	44	35	34	44	55	51	50	62	63	49	48	52	46	59	51	58	56	47.4	
Brookville.....	Maximum	45	57	61	55	53	65	68	74	74	79	62	55	74	....	70	60	72	73	81	86	87	62	80	59	78	75	83	83	78	83	85	70.6
	Minimum	40	37	37	40	43	35	30	31	30	32	46	45	48	....	36	33	27	36	45	46	45	46	56	54	50	45	40	54	54	53	51	42.2
Catawissa.....	Maximum	57	66	64	56	63	69	75	80	81	81	64	63	71	80	74	68	73	72	80	85	91	90	78	61	63	74	82	87	84	86	74.2		
	Minimum	43	46	45	47	45	42	37	42	45	42	47	46	51	54	44	42	33	41	45	45	49	57	61	48	46	50	44	47	58	61	50	46.9	
Chambersburg.....	Maximum	49	63	60	51	49	63	71	75	77	78	74	55	70	77	76	71	70	80	78	83	87	87	75	79	79	71	83	78	78	83	72	50	72.9
	Minimum	44	39	47	45	45	44	36	44	41	41	52	43	52	51	45	49	38	41	52	48	47	53	64	51	50	53	48	57	57	61	54	48.1	
Emporium.....	Maximum	48	55	61	56	55	62	70	73	73	75	65	56	68	70	63	60	71	70	78	83	86	86	76	58	73	69	80	81	78	81	82	69.7	
	Minimum	42	43	36	45	45	40	39	37	33	38	36	44	53	49	38	31	29	40	51	48	45	53	58	45	49	42	58	56	59	56	44.5		
Erie.....	Maximum	46	48	57	57	58	63	63	69	73	69	73	60	72	69	54	59	60	72	82	83	80	68	65	66	64	80	83	72	78	82	66.4		
	Minimum	63	42	43	46	44	44	48	43	49	52	51	49	54	50	45	39	37	53	54	62	63	56	55	54	53	57	64	56	62	63	51.5		
Grove City.....	Maximum	57	63	62	46	46	56	65	77	73	72	75	72	64	71	69	64	56	69	68	73	84	85	84	80	77	77	79	84	81	82	72.0		
	Minimum	38	40	30	45	46	44	41	36	36	39	50	47	52	53	39	32	31	41	58	56	55	57	52	52	52	61	61	57	61	67	61	48.0	
Harrisburg.....	Maximum	50	63	63	52	48	60	72	76	78	80	61	55	70	77	76	68	70	76	74	78	83	89	81	57	69	70	73	81	78	75	80	70.4	
	Minimum	47	48	50	45	46	45	47	55	56	57	47	45	54	57	55	51	45	48	59	52	55	63	55	50	49	56	50	62	61	62	54	52.5	
Holtwood.....	Maximum	52	64	68	59	50	59	66	73	73	75	70	59	73	75	75	66	66	73	77	75	84	89	82	68	72	68	77	77	73	77	70.6		
	Minimum	48	46	50	46	48	48	52	54	57	59	53	57	61	57	52	48	50	59	55	56	64	57	57	57	55	53	66	69	60	67	54.6		
Indiana.....	Maximum	45	57	62	53	48	66	71	75	77	79	76	59	76	74	69	65	77	78	85	79	85	85	84	79	81	78	83	87	78	85	87	73.6	
	Minimum	39	40	44	45	43	43	37	37	37	40	50	46	52	53	43	36	33	41	52	37	52	55	53	51	51	49	53	63	58	56	57	46.1	
Mount Pocono.....	Maximum	52	54	58	55	52	53	56	60	66	67	67	66	67	69	74	66	70	71	73	76	75	65	62	64	60	64	76	67	70	68	64.9		
	Minimum	46	40	46	39	37	40	41	42	43	45	47	50	51	53	54	50	49	52	51	52	54	53	48	46	45	46	45	56	55	51	50	47.6	
Philadelphia.....	Maximum	52	66	64	51	49	58	73	78	80	78	60	60	74	79	80	66	69	77	72	77	80	90	81	62	60	74	78	82	82	73	82	71.2	
	Minimum	48	48	50	47	45	45	49	55	58	60	49	48	56	63	63	53	46	52	54	51	58	64	49	47	54	58	60	65	62	58	53.6		
Pittsburgh.....	Maximum	46	59	59	57	54	65	66	71	72	75	64	66	75	69	61	60	73	75	83	84	83	84	85	71	78	76	83	85	75	84	85	71.7	
	Minimum	40	40	49	48	47	47	47	44	45	47	53	52	56	50	47	42	40	47	57	63	61	65	70	58	57	55	59	65	64	62	65	53.0	
Reading.....	Maximum	52	66	64	53	49	62	73	78	78	78	59	58	72	77	76	67	71	78	73	79	84	88	81	59	61	72	77	82	81	72	82	71.0	
	Minimum	48	45	48	48	46	44	47	52	54	56	46	46	54	61	56	49	43	48	58	50	58	65	51	47	47	54	52	62	58	52	51.8		
Scranton.....	Maximum	51	63	67	60	50	62	71	75	77	72	64	58	70	75	71	56	71	70	79	81	87	86	69	60	84	72	80	82	77	84	70.7		
	Minimum	47	47	47	50	42	42	52	51	52	48	44	53	57	49	43	38	45	51	52	55	61	53	48	45	49	48	60	61	63	62	50.0		
Somerset.....	Maximum	42	54	52	46	45	62	68	67	70	76	69	55	71	71	72	60	75	78	74	80	85	87	82	67	72	75	78	88	72	78	69.5		
	Minimum	31	31	32	41	40	35	40	38	45	38	45	42	49	45	42	35	30	38	38	47	45	56	62	45	48	53	54	58	54	55	44.2		
State College.....	Maximum	45	54	57	50	47	58	54	67	69	72	57	53	68	70	62	70	69	70	75	84	85	78	60	72	68	72	77	71	77	80	66.5		
	Minimum	40	40	38	45	40	40	43	46	46	50	44	41	49	51	46	38	36	45	51	52	53	62	57	48	46	51	44	55	55	59	53	47.2	
Towanda.....	Maximum	52	57	65	60	60	61	71	74	75	70	66	57	71	74	64	59	67	68	75	83	88	88	70	59	57	68	78	83	80	79	84	69.8	
	Minimum	46	46	42	49	43	38	38	44	42	42	38	45	51	54	43	40	32	43	43	49	49	55	56	48	47	50	45	60	55	61	64	47.0	
Uniontown.....	Maximum	45	55	56	53	48	61	69	70	75	79	72	68	75	72	68	64	75	79	86	86	82	85	88	75	79	77	84	88	75	80	83	72.6	
	Minimum	40	40	47	46	45	43	38	39	48	39	52	50	54	47	43	39	34	40	52	64	55	58	67	55	57	55	60	63	63	62	50.3		
Warren.....	Maximum	45	55	65	65	57	65	77	75	75	80	70	58	72	68	64	58	74	72	85	88	90	88	76	75	75	80	84	87	80	85	88	73.4	
	Minimum	39	41	36	45	48	35	36	35	32	38	44	45	52	45	39	31	30	43	50	52	50	53	58	49	48	50	45	60	58	59	58	45.3	
Wellsboro.....	Maximum	48	51	60	56	55	62	65	70	71	70	63	56	70	73	69	55	75	85	90	85	78	57	68	70	78	80	76	77	85	69.0			
	Minimum	41	42	32	45	39	33	30	34	34	34	54	32	42	50	45	42	30	27	39	40	48	46	51	54	42	45	47	40	55	54	42.8		
Williamsport.....	Maximum	52	62	62	58	52	66	70	78	80	79	73	60	68	77	72	70	76	74	80	88	92	77	68	66	73	78	80	85	82	83	72.6		
	Minimum	46	46	41	49	45	44	41	45	46	47	49	45	50	53	46	43	35	43	53	51	52	57	62	51	48	53	45	62	59	63	57	49.9	

UNIVERSITY OF ILLINOIS LIBRARY
AUG 16 1921

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

VOL. XXVI PHILADELPHIA, PA., JUNE, 1921. No. 6.

GENERAL SUMMARY.

The month was abnormally warm and dry, and in many respects was unfavorable for agriculture. From about the middle of May the rains were light and more or less local in character until near the end of June, when copious general rains relieved the conditions. The drought was severe enough to retard the growth of practically all kinds of vegetation, and permanently injured grasses and many kinds of vegetables. The winter grains were headed about the time that the drought began and were generally well filled before it was severe. The heavy straw shaded the ground and conserved the moisture, and it could not be said that the grain suffered to any material extent. The ripening process was hastened somewhat, and harvest began earlier than usual. The rains near the end of the month delayed harvesting and some fields stood until they were over ripe and there was some loss from crinkling. The growth of corn was retarded considerably but the plants remained in a healthy condition, and when rains came the beneficial effects were immediate. Early vegetables that came to market during the first week were of good quality, but from that time on there was a rapid deterioration. Root crops became tough and woody and peas and string beans were decidedly inferior in quality. Vegetables that were well advanced in growth were not improved much by the rains, but there was a decided improvement in those that were young and small. Pastures suffered more than any other kind of vegetation. The grasses were not tall and even enough to shade the ground well and it dried out around the roots, causing the grass to turn brown in many places. Meadows did not suffer quite so much but the hay crop was generally light. There were few local storms during the month, and the damage by wind and hail was less than is usual for the month of June. The month was favorable for field work and for all kinds of construction work, which made good progress. The dry conditions made it easy to kill weeds and as a rule the fields were clean. Hay was cured with little loss, which will, in part, make up for generally light yields.

TEMPERATURE.

The mean temperature for the State, as reported by 81 stations, was 70.6° or 2.7° above the June normal. Most of the excess temperature accumulated during the last ten days. The warmest period was from the 22d to the 25th, when maximum temperatures were above 90° in all parts of the State. An unseasonably cool spell occurred from the 2d to the 5th with frosts in the northern counties and a large portion of the mountain district. The highest temperature recorded was 101° at Catawissa on the 27th, and the lowest was 26° at West Bingham on the 5th.

PRECIPITATION.

The average rainfall as recorded at 129 stations was 3.12 inches, or 1.18 inches less than the June normal. A deficiency occurred in practically all parts of the State, but heavy local rains near the close of the month caused a moderate excess in Allegheny, Westmoreland and Somerset counties. The greatest monthly rainfall was 9.86 inches at Coraopolis, with similar rains over a narrow belt extending from Beaver Falls south-eastward to Somerset. The least monthly rainfall was 0.70 inch at Carlisle.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.				
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	269.8	455.1	59	69	68	7,630	10.6	37	w.	13
Harrisburg.....	343.2	448.9	76	66	50	2,748	3.8	24	nw.	28
Philadelphia.....	325.3	448.9	72	73	72	6,900	9.6	31	s.	29
Pittsburgh.....	329.0	452.0	73	60	59	6,256	8.7	47	sw.	28
Reading.....	337.2	448.9	75	65	54	1,854	2.6	25	e.	26
Scranton.....				64	55	4,547	6.3	27	sw.	11

* For any five-minute period.

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	68.4	100	30	3.04	6.90	1.08	.....	.....	.....
1889.....	66.7	95	33	5.43	10.04	2.71	.....	.....	.....
1890.....	70.1	97	33	3.42	5.74	1.30	12	11	7
1891.....	68.2	100	30	4.50	9.30	1.22	14	8	8
1892.....	71.8	99	40	5.64	10.55	1.83	9	11	10
1893.....	69.8	100	38	3.12	6.50	1.20	10	11	9
1894.....	69.6	102	30	2.57	5.31	0.61	13	12	5
1895.....	71.4	104	32	3.50	9.21	0.69	13	10	7
1896.....	67.4	98	32	4.64	9.11	1.89	10	11	9
1897.....	64.8	96	28	3.38	6.42	1.11	11	11	8
1898.....	69.6	100	33	2.79	6.96	0.56	14	11	5
1899.....	69.9	101	32	3.51	5.97	0.65	13	11	6
1900.....	69.9	97	35	3.60	10.29	1.35	11	12	7
1901.....	69.1	103	32	3.47	7.61	0.88	12	11	7
1902.....	66.0	97	32	5.97	8.93	3.35	11	12	7
1903.....	63.5	90	34	6.53	11.76	3.74	7	10	13
1904.....	67.9	96	32	4.06	6.67	1.62	12	10	8
1905.....	68.0	99	30	4.39	8.35	1.77	11	10	9
1906.....	69.3	97	28	5.43	10.29	1.40	11	12	7
1907.....	63.6	98	30	4.99	8.55	2.79	11	9	10
1908.....	68.8	102	28	2.36	4.61	0.58	19	9	2
1909.....	68.8	96	34	4.43	8.96	1.89	12	9	9
1910.....	65.4	95	32	4.31	8.68	1.33	12	8	10
1911.....	68.3	99	38	4.71	10.11	2.13	12	10	8
1912.....	65.6	96	29	3.36	8.58	0.79	13	9	8
1913.....	68.2	99	20	2.26	7.61	0.66	19	7	4
1914.....	68.6	101	25	3.71	7.05	1.17	16	8	6
1915.....	69.6	89	48	3.30	8.04	0.74	8	14	8
1916.....	63.7	89	28	6.14	12.45	2.83	11	10	9
1917.....	66.8	92	32	5.38	9.85	2.25	12	11	7
1918.....	66.0	98	29	3.42	2.65	0.44	15	11	6
1919.....	71.2	102	32	3.90	9.17	1.74	16	9	5
1920.....	67.0	99	32	4.97	8.37	2.25	12	11	7
1921.....	70.6	101	26	3.12	9.86	0.70	17	9	4

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	2.0	2.6	1	1.6	23	18
Phillipsburg.....	Delaware.....	4.2	4.7	4	4.0	12	15
Mauch Chunk.....	Lehigh.....	2.7	4.1	1	2.1	27	20
Wilkes-Barre.....	Susquehanna.....	1.8	5.7	1	0.7	25	20
Williamsport.....	Susquehanna.....	3.8	5.0	1	3.4	24	17
Harrisburg.....	Susquehanna.....	3.4	6.5	1	2.4	22	22
Freeport.....	Allegheny.....	2.5	6.4	27	1.6	23	20
West Newton.....	Youghiogheny.....	8.6	12.0	1	7.8	17	20
Greensboro.....	Monongahela.....	5.5	8.6	1	3.3	3	22
Pittsburgh.....	Ohio.....	8.6	14.0	1	7.4	4	30
Beaver Dam.....	Ohio.....	8.6	14.0	1	7.4	4	30

Climatological Data for June, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	34	68.8	+2.6	91	22	40	6	34	1.50	-2.37	0.43	0	11	18	11	1	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	37	72.0	+2.2	97	22†	46	2†	35	3.80	-0.44	1.85	0	5	5	24	1	sw.	Prof. Chas H. Rominger
Bustleton.....	Philadelphia.....	125	2	71.1	.....	94	24	41	3	28	2.79	.....	1.02	0	10	21	4	5	sw.	Experiment Station.
Carlisle.....	Cumberland.....	467	54	72.9	+2.0	96	22†	45	6	38	0.70	-3.21	0.30	0	6	19	6	5	s.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	24	70.8	+3.1	101	27	37	5	44	3.28	-0.64	1.43	0	7	22	6	2	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	25	69.0	+2.9	91	27	37	5	39	1.98	-2.11	0.58	0	6	23	6	1	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	21	71.4	+2.0	94	13†	42	5†	40	2.61	-1.40	0.77	0	12	15	12	3	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	11	70.3	+4.0	98	25	35	5	46	3.93	-1.06	0.80	0	8	15	14	1	sw.	E. W. Hfess.
Coatesville.....	Chester.....	380	33	73.1	+3.2	97	22†	46	3†	38	3.62	-0.42	2.29	0	6	16	11	3	sw.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	11	71.5	.....	97	27	45	6	39	1.71	.....	1.01	0	7	21	3	6	n.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. K. Hershey.
Everett.....	Bedford.....	1,080	23	69.4	+2.5	90	28	39	7	38	1.57	-3.42	0.60	0	5	21	8	1	s.	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,873	6	67.5	.....	92	22	38	5	31	4.63	.....	1.35	0	8	14	11	5	w.	Theo. Reichmann.
George School.....	Bucks.....	190	14	70.6	+2.9	96	22	39	3	41	2.13	-1.03	0.66	0	10	21	6	3	sw.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	47	72.6	+3.0	96	13†	45	5†	39	0.94	-3.02	0.42	0	7	15	13	2	s.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	17	67.6	+2.4	93	22	38	6	40	2.75	-1.58	2.04	0	7	24	2	4	e.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	State Sanatorium.
Hanover.....	York.....	600	17	73.8	+3.2	97	22†	45	5	36	1.49	-2.23	0.53	0	7	21	6	3	s.	Miss Olive M. Ryder.
Harrisburg.....	Dauphin.....	361	51	72.8	+2.8	95	28	50	5	29	1.74	-2.17	0.59	0	7	10	12	8	s.	U. S. Weather Bureau.
Huntingdon.....	Huntingdon.....	650	33	70.4	+2.2	95	22	37	5	43	3.42	-1.06	1.09	0	11	19	8	3	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	1	71.4	.....	97	22	39	5	42	2.69	.....	0.80	0	8	24	3	3	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	49	70.2	+1.3	92	22†	45	3	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster.....	Lancaster.....	255	33	71.4	+1.3	98	22†	33	5	46	0.92	-3.05	0.49	0	5	19	9	2	e.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	23	67.1	+1.9	94	22	35	5	42	3.10	-0.88	0.80	0	9	19	9	2	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	80	73.2	+3.9	98	22†	45	6	40	2.30	-1.63	1.45	0	4	18	10	2	w.	S. B. Benzing.
Lewisburg.....	Union.....	450	46	71.5	+4.3	97	22	40	5	43	2.56	-1.60	1.05	0	7	18	7	5	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	33	70.0	+0.6	99	23	36	5	44	1.00	-3.38	0.26	0	8	8	20	2	w.	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	6	69.8	.....	98	22	38	6	43	2.10	.....	1.03	0	9	24	3	3	nw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	1	73.6	.....	98	23†	46	3	34	1.46	.....	0.59	0	5	10	14	6	nw.	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	31	69.6	+1.8	98	27	42	2	42	2.78	-1.42	0.98	0	8	18	10	2	w.	R. K. Wintermute.
Millintown.....	Juniata.....	445	17	71.0	+3.2	95	22†	38	5	42	2.97	-1.43	2.03	0	5	23	3	4	sw.	Wellington Smith.
Millford.....	Pike.....	500	18	65.5	+1.1	94	22	35	2†	45	2.85	-0.84	1.10	0	6	18	12	0	w.	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	18	65.0	+2.3	92	27	35	5	35	2.16	-1.70	0.95	0	7	26	0	4	w.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	19	60.2	-1.4	79	21†	35	2†	30	3.20	-1.66	1.10	0	6	22	4	4	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	9	67.2	.....	94	22†	40	5†	42	2.97	.....	0.82	0	8	21	6	3	.....	A. H. Boettner.
Narberth.....	Montgomery.....	300	2	71.6	.....	94	22†	45	3	34	1.96	.....	1.13	0	7	16	8	6	sw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	32	70.1	.....	97	24	40	3	40	2.39	.....	1.10	0	8	21	3	6	sw.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	4	70.2	.....	96	22	43	5	35	4.63	.....	2.05	0	6	9	19	2	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	50	73.4	+2.0	95	24	54	3	26	2.86	-0.78	2.16	0	7	11	8	11	sw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	5	73.2	.....	95	24†	52	3	27	1.79	.....	1.20	0	10	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	10	71.2	.....	98	22	43	20	46	2.63	.....	1.27	0	4	25	4	1	nw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	36	70.6	+2.4	99	22	39	3	43	1.70	-1.99	0.72	0	7	21	6	3	nw.	John E. Benner.
Reading.....	Berks.....	325	51	72.8	+2.5	96	22	51	5	35	1.06	-2.41	0.51	0	7	19	6	5	se.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	10	72.6	.....	96	22†	49	3†	33	3.15	.....	2.05	0	6	16	11	3	w.	S. A. Clarke.
Seranton.....	Lackawanna.....	805	26	69.4	+2.7	94	27	45	5	36	1.61	-1.92	0.48	0	9	11	12	7	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	31	69.8	+0.8	95	22†	41	5	39	2.24	-2.01	0.73	0	9	18	7	5	sw.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	25	73.8	.....	95	22†	47	3	35	1.14	-2.28	0.80	0	5	15	14	1	se.	W. S. Guiles.
State College.....	Center.....	1,217	36	67.5	+2.0	89	22	39	5	31	2.78	-1.60	0.91	0	8	13	15	2	sw.	Prof. Wm. Frear.
Stroudsburg.....	Monroe.....	500	9	68.1	.....	97	22	37	8	45	2.37	.....	0.78	0	7	26	3	1	.....	H. Q. Snyder.
Towanda.....	Bradford.....	754	26	66.8	+4.5	91	22†	35	5	43	3.09	-0.53	0.75	0	11	19	5	6	n.	Iffram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	55	64.4	-0.1	89	22	31	5	44	3.09	-0.96	1.15	0	6	20	7	3	sw.	George W. Hill.
West Chester.....	Chester.....	455	87	71.5	+2.1	96	22	46	3	34	3.32	-0.83	2.86	0	6	20	7	3	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	34	71.4	+2.9	97	22	40	5	41	1.41	-2.43	0.42	0	8	20	4	6	se.	Jacob April.
York.....	York.....	400	33	71.0	+1.1	95	22†	43	5†	36	1.92	-1.61	0.72	0	5	20	6	4	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	28	72.7	.....	94	18†	42	5	38	5.29	+0.71	1.87	0	10	12	12	6	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	6	65.8	.....	90	26	32	5	50	3.50	.....	0.96	0	8	15	11	4	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	3	67.0	.....	92	25	32	5	45	1.81	.....	0.53	0	9	18	9	3	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	30	65.7†	.....	92	25	30	6	45	2.95	-1.28	1.12	0	5	22	6	1	.....	John Fawcett.
Claysville.....	Washington.....	1,150	17	73.2	+5.0	95	25	42	6	39	4.20	+0.13	2.03	0	9	12	14	4	.....	J. L. Melvin.
Corry.....	Erie.....	1,400	9	67.0	.....	88	25	35	5	39	6.46	.....	3.71	0	10	18	12	0	.....	Nevin R. Dickinson.
Derry.....	Westmoreland.....	1,172	24	72.0	+3.4	95	27	38	5	44	5.97	+1.24	3.60	0	9	20	4	6	w.	Miss N. Dixie Whiteman.
Ebensburg.....	Cambria.....	2,000	3	65.4	.....	86	22	32	5	39	2.87	.....	0.65	0	11	22	7	1	sw.</	

Day of month.

Continued on page 24.

Daily Precipitation for June, 1921. - Continued from page 23.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Creekside	Allegheny			.40				T.	T.				.17					T.	.01				.60	2.51			4.32	.02	.89	.36	.18	1.30	
Davis Isl. Dam	Ohio			.99									.07	.12									1.18			.45	3.60	.10	.30	.02		9.45	
Derry	Conemaugh			.13								.24	.22					.30	.06					1.65			.39	.15	.18	.20		5.97	
Ebensburg	Conemaugh			.13								.98		.09				.23					.06	T.	.35		.05	.13	.24	.24		2.87	
Edinboro	Allegheny			.11				T.				.24	1.10					.08					T.				.05	.13	.24	.24		3.13	
Elk Lick	Youghiogheny			T.				T.				.57	.26					.19					T.		.55	1.10	T.	.71	1.16			4.88	
Falls Creek	Allegheny	.03												.11												.15	.16		.06	1.05	.04	1.57	
Franklin	Allegheny												.48						.02					2.23			.55		.16	.35	.10	4.20	
Freeport	Allegheny			.31									.10			.12					1.50				T.		.80			.20	.04	3.14	
Greensboro	Monongahela			.38				T.				.08	.14				T.	.20	T.				1.12			.73	2.67	1.13	.04	.29	T.	6.67	
Greensburg	Youghiogheny			.27								.12											.70			.35	.36		1.27			2.80	
Greenville	Beaver												.13					.42					.35	2.30		.19	.02	.01	T.			3.42	
Grove City	Youghiogheny			T.									.18					T.			T.			2.53			3.51	T.	.14	.28	.01	7.37	
Herrs Isl. Dam	Ohio			.72				T.	T.			T.							.30						.65		.52	.22	.45	.62		3.53	
Indiana	Conemaugh			.57				T.				.20							.30								.52						
Irwin	Youghiogheny											.11	.21					.30	.27					1.28		.68	3.45	.85	.09	.28		\$7.52	
Johnstown	Conemaugh			.48	.01			T.				.34	.08					.33	.35					.77		.01	.55	1.19	.22	T.		4.33	
Ketner	Allegheny	.05										.45	.10					.22						.04			.04		.45	.30	.47	2.12	
Lanesville	Beaver							T.				.02	.24			T.							T.	.06			.21	.12	.32	.63		1.60	
Lock No. 4	Monongahela			.21				T.				.28						T.	.49				T.	.22			1.12	.52	.07	T.	.10	3.01	
Lycippus	Conemaugh			.35								.20	.18					T.	.01				2.19				2.46	.10	.26	.52		6.27	
New Castle	Beaver			.06								.06											.05			.39	.26	.42	.33	.02		1.59	
Newell	Fayette			.22								.20												.33			.90	.07		T.	.15	1.94	
North Shenango	Beaver											.15												.17				.22		1.30		1.84	
Parkers Landing	Allegheny			.22				T.	T.			.04	.10								T.				.42		.10	.12	.22	.60	.16	1.98	
Pennline	Beaver											.36												.11	.09		.48	.13	.38	.55		2.10	
Pittsburgh	Ohio			.52				T.	T.			.32	T.					T.	T.				1.95	.16		1.56	.23	.03	.34	.22	T.	5.33	
Ridgway	do											.35	.25					.34						1.32				.02	.64	.43	.34	3.69	
Saltsburg	Conemaugh			.57				T.				T.	.32											1.45	.01		.37		.10	.31	.01	6.14	
Sharon	Beaver			.04																				.19			.88	.05	.09	1.00		2.25	
Somerset	Youghiogheny			.33						.22	.50							.28	.20						.14		2.20	1.40	T.	.15	1.10		6.52
Springdale	Monongahela			1.03								.20						T.	.03					1.51			1.15	.07	.12	1.00	.11	8.25	
Summit	Beaver											.76															.30	.37	.41	.70		2.70	
Tionesta	Allegheny											.25						.36						.57			.07	.05	.76	.63		2.69	
Turnerville	Beaver											.35												.50			.35	.15		.18		1.53	
Uniontown	Monongahela			.39								T.	.26	T.				.90	.08					.15			1.57	.47	.02	.31		4.10	
Vandergrift	Beaver			.19								.31						.07						1.42			.46	.05	.31	.55		3.36	
Warren	Allegheny											1.35	.15					.15									.30	.34	.91	.65		3.85	
Waynesburg	Green			.15															1.70					.14			1.15	.20		.45		3.79	
Westford	Beaver																							.27			.45		.37	1.80		2.89	
West Newton	Youghiogheny			.31				T.					.53						T.	T.					T.	.69		1.91	.09	.26	T.	.31	4.10
Lake Drainage.																																	
Eric**	Lake Erie			T.								T.							.26									.13	1.60	1.49			3.48
West Bingham	Genesee			.02								.10	.95	.22				.32							T.					1.25	.25	.03	2.14

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch.

§ Incomplete or missing.

Daily Temperatures for June, 1921.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Altoona.....	Maximum	76	73	87	77	70	73	70	74	78	81	82	82	87	81	77	83	83	82	78	82	88	91	80	86	87	87	84	88	83	85	.....	81.2
	Minimum	58	45	52	61	41	40	54	56	53	55	57	67	59	51	45	50	59	58	50	48	57	59	67	62	61	65	67	64	65	66	.....	56.4
Brookville.....	Maximum	75	80	85	72	....	75	75	80	83	86	82	79	87	73	77	83	85	85	82	87	91	88	86	85	92	91	84	86	80	85	.....	82.7*
	Minimum	45	37	50	40	....	30	35	50	47	48	48	49	45	42	36	40	55	60	47	44	49	55	56	51	51	64	60	62	52	63	.....	43.7*
Catawissa.....	Maximum	80	80	86	77	77	79	68	82	85	90	88	86	91	81	85	85	73	86	85	87	96	98	90	95	96	96	101	90	91	83	.....	86.2
	Minimum	57	42	53	56	37	41	47	47	53	55	64	66	53	54	46	50	60	53	47	45	52	63	68	61	58	70	65	63	66	69	.....	55.4
Chambersburg.....	Maximum	80	75	81	79	74	78	73	80	81	86	88	84	89	81	86	85	84	83	85	90	93	90	94	92	89	91	90	88	85	.....	85.1	
	Minimum	53	52	50	65	42	42	57	57	52	57	56	65	54	60	45	48	62	63	56	51	55	59	70	62	64	68	65	64	68	69	.....	57.7
Emporium.....	Maximum .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Erie.....	Maximum	69	77	79	61	63	70	69	73	78	83	79	72	77	67	76	76	84	78	77	80	86	84	83	77	86	86	87	84	80	81	.....	77.4
	Minimum	52	50	57	51	47	52	57	56	58	66	65	61	64	56	53	57	63	62	57	62	74	72	68	65	70	67	66	70	68	.....	61.0	
Grove City.....	Maximum	76	80	84	72	69	73	76	74	83	85	82	78	88	75	78	80	87	87	80	85	90	86	85	84	88	90	82	87	84	80	.....	81.6
	Minimum	61	49	62	48	37	36	57	53	51	59	64	61	55	50	45	48	58	63	61	55	57	64	66	67	65	66	69	68	67	.....	57.6	
Harrisburg.....	Maximum	76	74	80	73	72	74	66	77	80	83	85	86	93	80	79	83	77	84	82	82	90	94	88	92	91	90	93	95	88	82	.....	83.0
	Minimum	58	54	56	56	50	50	60	58	61	65	68	64	65	56	59	64	62	60	57	63	70	74	70	69	73	67	68	71	.....	63.6		
Holtwood.....	Maximum	61	75	81	75	70	80	77	82	84	81	89	84	95	81	77	81	81	85	79	79	90	91	91	90	93	99	92	91	95	88	.....	84.1
	Minimum	51	67	61	59	54	55	64	63	73	64	68	68	65	63	59	61	64	65	63	61	65	70	75	73	73	73	73	73	73	71	.....	65.6
Indiana.....	Maximum	83	85	89	79	75	80	74	80	87	89	83	85	91	86	82	82	86	88	88	90	92	90	93	91	93	90	85	89	79	84	.....	85.7
	Minimum	58	50	59	59	42	46	58	56	55	57	60	67	53	52	46	49	57	62	57	53	58	62	67	67	64	65	65	65	66	66	.....	58.0
Mount Pocono.....	Maximum	66	64	68	69	65	62	69	72	74	75	76	69	67	65	64	61	65	66	68	78	79	79	79	75	78	79	78	78	70	71	.....	71.0
	Minimum	49	35	46	46	40	35	39	46	47	49	52	50	46	40	44	50	51	50	51	50	54	56	57	52	56	56	58	55	60	60	.....	49.3
Philadelphia.....	Maximum	82	74	80	79	73	75	70	75	78	82	86	88	90	81	81	84	74	82	76	81	85	94	92	95	91	83	92	94	92	75	.....	83.0
	Minimum	59	55	54	61	55	57	60	59	59	63	62	69	66	65	61	64	62	62	59	60	62	69	75	75	73	68	69	72	70	68	.....	63.8
Pittsburgh.....	Maximum	78	84	85	72	72	78	75	77	83	87	82	81	89	75	80	76	90	86	85	86	89	85	85	88	88	87	86	87	84	82	.....	82.7
	Minimum	64	58	63	52	48	53	62	58	59	65	69	67	64	60	54	56	63	69	68	61	67	70	69	70	66	66	70	70	70	67	.....	63.3
Reading.....	Maximum	80	76	82	75	74	75	67	78	82	85	87	86	96	78	80	82	73	85	81	83	91	96	90	93	94	89	95	92	90	80	.....	83.8
	Minimum	61	53	52	55	51	51	57	59	56	62	65	66	61	61	56	57	64	58	60	56	64	72	74	71	68	68	70	69	68	70	.....	61.8
Seranton.....	Maximum	71	78	84	69	71	74	75	79	82	86	82	78	89	70	78	80	66	79	77	82	90	93	86	87	88	86	94	85	82	79	.....	80.0
	Minimum	53	50	54	50	45	47	53	54	54	56	66	59	53	58	49	52	58	57	54	53	55	72	71	66	60	69	69	66	67	69	.....	58.0
Somerset.....	Maximum	80	77	88	76	72	75	71	74	80	88	83	82	86	80	82	85	82	85	85	87	89	87	84	87	90	82	85	86	80	85	.....	82.1
	Minimum	52	52	55	58	40	48	52	52	50	60	57	60	56	55	48	45	56	63	56	49	56	60	65	62	58	64	63	63	68	61	.....	56.1
State College.....	Maximum	73	73	84	74	67	71	70	73	78	79	76	76	79	75	76	80	76	80	78	80	79	89	83	86	88	85	86	85	81	82	.....	78.7
	Minimum	56	43	56	57	39	42	52	53	51	58	58	65	60	56	45	51	61	56	53	49	59	67	65	60	59	65	63	62	64	63	.....	56.2
Towanda.....	Maximum	75	76	84	70	70	74	77	78	82	88	84	77	84	70	77	79	79	76	82	89	91	88	86	87	88	91	86	76	76	.....	80.1	
	Minimum	56	41	41	51	35	39	45	52	48	55	67	57	52	56	47	43	59	55	48	46	49	63	68	60	55	64	61	63	67	63	.....	53.5
Uniontown.....	Maximum	82	83	86	83	73	78	78	77	83	88	84	83	88	82	79	80	90	85	82	85	87	85	86	89	92	89	86	88	83	82	.....	83.9
	Minimum	59	63	61	58	47	55	59	53	53	63	68	57	60	47	49	57	65	67	57	64	64	70	68	65	67	68	71	69	69	.....	61.1	
Warren.....	Maximum	74	83	84	70	75	75	75	80	87	89	82	78	80	72	79	83	85	87	82	88	90	89	89	91	90	84	83	85	83	.....	82.7	
	Minimum	55	40	60	50	37	40	45	50	48	58	62	58	56	48	43	46	58	60	48	45	52	62	57	59	58	68	64	67	66	.....	54.2	
Wellsboro.....	Maximum	72	76	85	69	68	70	70	78	81	85	75	76	83	71	76	79	70	79	75	84	87	89	87	85	88	88	85	80	80	.....	79.8	
	Minimum	43	36	53	53	31	34	40	43	50	55	56	48	52	40	40	56	48	42	40	47	58	64	52	54	54	60	60	61	64	65	.....	49.5
Williamsport.....	Maximum	80	75	83	81	74	76	73	80	82	86	86	85	92	89	83	85	83	86	88	85	94	97	90	93	92	90	95	91	85	84	.....	85.4
	Minimum	60	45	56	60	40	44	49	52	52	54	61	68	55	59	49	51	62	53	51	50	53	65	70	62	61	69	67	66	67	69	.....	57.3

1.05
NP

UNIVERSITY OF ILLINOIS LIBRARY

AUG 27 1921

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

VOL. XXVI PHILADELPHIA, PA., JULY, 1921. No. 7.

GENERAL SUMMARY.

The weather was decidedly warm and humid throughout most of the month, and the average temperature was the highest for any July since 1901. Rainfall was sufficient for the crops in almost all parts of the State, and excessive in some places. However, the growth of some kinds of vegetation had been so badly retarded during June that even the most favorable conditions imaginable in July would not have brought them up to a state of thriftiness. Potatoes and other root crops, the early vegetables, oats and pastures could not recover from the effects of the dry weather in June; but corn, wheat and rye made practically complete recovery.

TEMPERATURE.

The average temperature for the State, as determined from records of 79 stations, was 75.9°, which is 3.9° above normal. Mean temperatures ranged from 80.0° at Beaver Dam to 62.4° at Mount Pocono. The extremes for the State were 104° at Bethlehem on the 4th, and 45° at Mount Pocono and West Bingham on the 16th and 20th respectively.

PRECIPITATION.

The average precipitation for the State, as determined from records of 128 stations, was 4.13 inches, which is 0.03 inch below normal. Rainfall at all but a few stations ranged from about three to five inches. Nevertheless there were reports of a few localities within a few miles of observation stations which were without any rain of consequence through most of both June and July; this was particularly true in regions surrounding Carlisle and Chambersburg.

The greatest recorded rainfall for the whole month was 9.19 inches at Cresson, and the least was 1.23 inches at Driftwood. The greatest 24-hour rainfall was 4.85 inches at Girardville on the 19th. The principal rains of the month were clustered around the following dates: 10th, 15th, 19th, and 29th.

DAMAGING STORMS.

There were numerous severe local storms with much damage resulting from lightning and high winds, and considerable damage from hail, washouts, and flooding. Some of the most important of these local storms are briefly described below.

Greensburg, July 8.—Storm swept over Irwin, Manor, and Herminie. Near Manor a girl was killed by lightning. In Irwin an opera house was struck and \$50,000 loss resulted from the fire. At Herminie trees were uprooted and several buildings wrecked.

Dubois, July 11.—Many gardens and fields of corn were badly damaged by hail. A man was killed in his home by lightning. Very serious damage to corn and oats resulted from hail in the southwestern part of Blair County on the 26th, especially near Duncanville. Slight damage was done by hail at West Bingham on the 8th and 14th and at Warren on the 26th.

Clearfield, July 9 and 11.—Village drainage system proved far inadequate for the excessive rainfall; much damage was done by the flooding of cellars, especially those of stores, where merchandise was kept.

Pottsville, July 20.—Roads were washed out and sewers were overflowed. At Port Carbon a dam was washed away.—G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.				
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	233.9	461.4	51	72	64	6,955	9.3	36	s.	27
Harrisburg.....	310.1	455.2	68	76	60	3,843	5.2	28	sw.	19
Philadelphia.....	254.1	455.2	56	85	81	5,203	7.0	29	nw.	31
Pittsburgh.....	357.4	458.3	78	75	62	5,491	7.4	36	nw.	8
Reading.....	285.0	455.0	63	77	71	3,483	4.7	27	sw.	19
Scranton.....				79	68	3,599	5.0	30	sw.	27

* For any five-minute period.

COMPARATIVE DATA FOR JULY.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	69.2	97	38	3.45	7.10	1.40	.....	.....	.....
1889.....	71.6	96	39	6.80	15.02	1.04	.....	.....	.....
1890.....	70.7	101	33	3.52	6.40	0.70	13	11	7
1891.....	67.8	97	34	6.32	11.61	2.63	11	10	10
1892.....	73.1	103	38	3.93	8.59	2.15	15	11	5
1893.....	72.1	102	36	3.15	6.27	1.58	15	12	4
1894.....	73.8	103	31	2.32	5.96	0.53	15	11	5
1895.....	69.1	102	34	3.24	6.18	1.16	12	12	7
1896.....	72.8	98	40	6.89	15.59	3.04	10	11	10
1897.....	73.4	103	41	6.26	14.51	2.10	10	11	10
1898.....	74.8	107	33	3.36	6.29	1.15	12	12	7
1899.....	72.3	101	35	3.91	8.24	1.53	12	11	8
1900.....	74.0	104	35	4.86	8.26	1.81	14	12	5
1901.....	76.4	107	45	3.88	7.34	1.52	10	13	8
1902.....	71.8	99	41	6.04	12.35	2.11	10	12	9
1903.....	71.2	98	35	5.36	8.81	1.76	13	12	6
1904.....	70.6	99	34	4.68	9.19	1.92	12	11	8
1905.....	72.6	99	39	4.87	9.78	2.49	10	12	9
1906.....	71.3	95	38	4.31	8.98	1.41	12	13	6
1907.....	71.5	96	34	3.84	9.46	1.01	15	12	4
1908.....	73.9	104	39	4.81	9.57	2.15	14	12	5
1909.....	69.7	98	34	2.14	4.50	0.75	16	11	4
1910.....	72.8	99	41	2.42	5.15	0.45	16	11	4
1911.....	73.7	105	36	2.81	7.41	0.90	16	11	4
1912.....	71.3	100	36	5.29	12.65	1.04	12	11	8
1913.....	71.8	101	40	4.16	8.00	0.82	15	10	6
1914.....	71.3	101	38	4.19	10.29	1.10	12	11	8
1915.....	70.7	98	40	5.28	12.30	1.82	10	13	8
1916.....	74.3	98	41	4.45	12.41	0.39	14	10	7
1917.....	72.1	105	40	4.33	9.76	1.90	12	12	7
1918.....	70.1	99	35	3.05	9.96	0.77	16	10	5
1919.....	72.6	104	34	5.90	14.58	1.70	16	8	7
1920.....	69.5	96	33	4.37	10.70	1.27	15	10	6
1921.....	75.9	104	45	4.13	9.19	1.23	19	9	3

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.		Highest stage.		Date.	Lowest stage.		Date.	Flood stage.
Port Jervis.....	Delaware.....	2.3	3.3	22	1.7	8	18			
Phillipsburg.....	Delaware.....	1.4	4.7	20	0.6	9	.....		
Mauch Chunk.....	Lehigh.....	4.7	6.0	20	4.3	8	15			
Wilkes-Barre.....	Susquehanna.....	3.1	4.6	20	2.2	9	20			
Williamsport.....	Susquehanna.....	1.2	1.8	2	0.6	28	20			
Harrisburg.....	Susquehanna.....	3.7	4.1	21	3.4	11	17			
Freepport.....	Allegheny.....	3.2	4.9	2	2.4	8	22			
West Newton.....	Youghiogheny.....	2.0	3.6	1	1.4	27	20			
Greensboro.....	Monongahela.....									
Pittsburgh.....	Ohio.....	5.5	6.2	2	4.6	22	22			
Beaver Dam.....	Ohio.....	8.4	9.8	2	7.7	11	30			

Climatological Data for July, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	34	73.6	+2.5	92	8	54	16	29	7.48	+4.26	3.03	0	12	18	12	1	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	37	77.5	+2.8	104	4	59	22†	34	6.11	+1.74	2.40	0	5	5	21	5	sw.	Prof. Chas. H. Rominger
Bustleton.....	Philadelphia.....	125	2	77.4	.....	96	4	58	17†	30	2.72	.....	1.47	0	14	17	5	9	.....	Experiment Station.
Carlisle.....	Cumberland.....	467	54	79.2	+4.4	100	4	60	17†	37	3.23	-0.56	1.10	0	10	22	3	6	s.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	24	77.5	+4.8	96	4	56	21	33	4.01	+0.40	2.08	0	11	15	12	4	w	H. H. Yetter.
Center Hall.....	Center.....	1,272	25	74.9	+3.5	94	4	54	18	29	4.66	+0.69	1.36	0	9	20	9	2	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	21	76.8	+2.1	96	8	57	17†	34	4.56	+1.28	1.80	0	12	14	11	6	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	11	76.2	+5.1	99	5	53	16	38	7.83	+4.29	3.00	0	9	19	10	2	w.	E. W. Hess.
Coatesville.....	Chester.....	380	33	78.8	+4.1	97	4†	60	17†	34	2.09	-2.80	0.85	0	10	11	17	3	sw.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	11	77.3	.....	96	4	58	18	35	2.05	.....	1.32	0	10	19	4	8	ne.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	33	.....	.....	88½	14	52½	16	31½	3.97	-0.47	1.05	0	9	.....	.....	.....	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	20	77.9	+3.9	95	27†	61	17†	30	1.90	-2.48	1.16	0	8	14	11	6	sw.	E. K. Hershey.
Everett.....	Bedford.....	1,080	23	73.4	+1.7	92*	3	49*	16	33*	3.20	-0.69	1.03	0	8	23	8	0	s.	J. E. Throopp Co.
Freeland.....	Luzerne.....	1,873	6	74.4	.....	92	8†	56	16†	28	7.31	.....	2.86	0	10	10	10	11	w.	Theo. Reichmann.
George School.....	Bucks.....	190	14	76.5	+2.9	95	3†	54	18	34	1.72	-2.10	0.91	0	13	18	6	7	s.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	47	78.8	+4.8	98	4†	58	17	35	5.75	+2.19	2.15	0	10	16	7	8	sw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	17	74.0	+3.8	93	28	53	16	36	4.07	-1.01	2.00	0	8	25	1	5	sw.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	28	.....	.....	.....	.....	60	17†	.....	5.09	+0.10	2.10	0	9	24	4	3	ne.	State Sanatorium.
Hanover.....	York.....	600	17	79.0	+3.6	97	4†	60	18	29	3.37	-0.93	1.77	0	10	22	7	2	s.	Miss Olive M. Ryder.
Harrisburg.....	Dauphin.....	361	51	78.9	+4.2	95	3	64	23	27	1.26	-2.47	0.50	0	8	10	8	13	w.	U. S. Weather Bureau.
Huntingdon.....	Huntingdon.....	650	33	76.6	+4.4	95	4†	56	18†	36	3.82	+0.02	0.65	0	18	16	8	7	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	1	77.7	.....	98	5†	54	16	43	4.66	.....	2.03	0	10	23	6	2	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	49	75.9	+2.0	91	4†	60	17†	24	.....	-0.39	0.85	0	10	15	11	5	sw.	W. P. Mercer.
Lancaster.....	Lancaster.....	255	33	78.1	+4.7	99	4†	56	22	37	3.45	-1.39	1.40	0	5	19	9	2	e.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	23	75.2	+5.0	95	8	50	16	36	2.80	-1.39	1.40	0	5	19	9	2	sw.	C. P. Darling.
Lebanon.....	Lebanon.....	469	80	78.8	+5.2	98	27	60	17†	35	2.20	-1.99	0.78	0	8	12	14	5	sw.	S. B. Benzing.
Lewisburg.....	Union.....	450	46	77.7	+6.2	97	8	56	16	34	4.18	+0.19	1.72	0	8	14	10	7	s.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	33	76.5	+3.2	100	8	53	16	38	4.15	+0.25	1.23	0	11	2	28	1	w.	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	6	76.2	.....	97	8	52	16	39	2.69	.....	0.70	0	8	25	4	2	nw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	1	77.7	.....	96	3	59	17†	30	5.79	.....	1.64	0	9	0	22	9	sw.	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	31	76.0	+3.7	95	27	55	17	34	4.86	-0.17	2.50	0	8	11	12	8	w.	R. K. Wintermute.
Millintown.....	Juniata.....	445	17	77.6	+4.9	97	11	54	18	37	3.33	-0.62	1.46	0	7	18	10	3	w.	Wellington Smith.
Millford.....	Pike.....	500	18	72.6	+2.4	92	6†	50	17	37	3.65	-0.23	1.35	0	5	17	13	1	w.	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	18	72.3	+4.1	95	7	54	16†	30	4.46	+0.52	1.00	0	10	19	7	5	s.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	19	62.4	-3.8	78	6	45	20	24	5.95	+1.31	2.00	0	12	11	7	13	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	9	73.4	.....	94	4	53	20	33	6.66	.....	2.06	0	11	14	10	7	.....	A. H. Boatman.
Narberth.....	Montgomery.....	300	2	77.0	.....	94	4	58	23	30	5.57	.....	1.63	0	12	13	6	12	sw.	Charles Decker.
Neshaminy Falls†.....	Bucks.....	60	32	76.6	.....	96	4	56	23	32	2.82	.....	1.10	0	11	16	4	11	s.	North Springfield Water Co
Palmerton.....	Carbon.....	398	4	76.8	.....	96	4	59	17	30	5.74	.....	2.45	0	9	3	27	1	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	50	78.6	+2.1	96	4	65	1	23	4.04	-0.02	1.15	0	12	7	9	15	sw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	5	78.0	.....	95	4	64	17†	24	6.17	.....	2.07	0	10	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	10	77.6	.....	96	8†	60	21†	29	4.66	.....	1.50	0	9	23	7	1	s.	North Springfield Water Co
Quakertown.....	Bucks.....	496	36	76.2	+3.7	96	4	56	22†	35	6.23	+1.50	3.60	0	13	12	9	10	sw.	John E. Benner.
Reading.....	Berks.....	325	51	78.6	+3.7	97	4	63	22	29	2.55	+1.74	0.84	0	9	12	5	14	se.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	10	78.6	.....	95	4†	59	22	27	3.31	.....	1.28	0	11	9	13	9	sw.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	26	76.0	+3.9	96	4	58	16	29	4.90	+1.37	1.51	0	9	10	10	11	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	31	77.1	+3.6	95	4†	56	16	34	2.01	-2.36	1.10	0	5	10	12	9	sw.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	25	79.0	.....	96	3†	61	22	29	4.87	+0.61	1.89	0	12	9	17	5	sw.	W. S. Guiles.
State College.....	Center.....	1,217	36	73.6	+3.0	90	4†	55	16	28	2.25	-1.48	0.65	0	11	15	12	4	sw.	Prof. Wm. Frear.
Stroudsburg.....	Monroe.....	500	9	.....	.....	94½	4†	54½	17	34½	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. Q. Snyder.
Towanda.....	Bradford.....	754	26	75.5	+4.9	94	7†	55	16†	34	3.73	-0.14	0.84	0	12	15	13	3	e.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	55	72.8	+3.9	94	5	48	16	36	3.17	-0.74	1.14	0	7	25	3	3	sw.	George W. Hill.
West Chester.....	Chester.....	455	87	77.2	+2.9	95	27†	60	17	27	1.43	-3.17	0.47	0	14	8	21	2	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	34	78.2	+5.1	97	8	58	16	33	3.76	-0.18	0.99	0	7	14	11	6	se.	Jacob April.
York.....	York.....	400	33	77.2	+2.8	96	4	57	22	33	2.88	-1.65	1.25	0	8	14	14	3	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam†.....	Beaver.....	700	28	80.0	.....	98	28	56	22	35	3.55	.....	0.92	0	11	13	13	5	ne.	U. S. Engineer.
Bradford.....	McKean.....	1,427	6	73.6	.....	96	5†	52	17†	39	3.30	.....	1.29	0	10	9	17	5	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	3	71.6	.....	95	5	50	2†	37	5.75	.....	1.69	0	10	14	12	5	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	30	71.7	.....	96	5	48	16†	42	5.36	+0.69	1.25	0	8	19	8	4	.....	John Fawcett.
Claysville.....	Washington.....	1,150	17	76.4	+3.7	95	7	53	22	36	3.62	-0.88	0.90	0	11	15	10	6	.....	J. L. Melvin.
Corry.....	Erie.....	1,400	9	73.9	.....	93	5	50	22	38	2.95	.....	1.24	0	14	17	11	3	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	24	75.8	+2.5	97	5	52	22	43	4.27	-0.51	0.84	0	9	20	3	8	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	3	70.2	.....														

Daily Precipitation for July, 1921.

Stations.	Drainage Basin.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic Drainage.																																			
Allentown|||	Lehigh.....		.04								.30	.45	.03			1.50					2.10	.05									1.20		5.67		
Altoona|||	Juniata.....	.70								T.	.98	.07	.25		.33	.02				1.44	.05						.07	.47	.07	3.03		7.48			
Ansonia|||	N. Br. Susq.....						.39		T.	.58	.11	.90	T.	.73	.33	.35	.23													.13	.38		4.13		
Arndtsville|||	Potomac.....	.53									.01	.95	.14		.08	.41				.57	.05									.31	.03		3.08		
Austin|||	W. Br. Susq.....																																		
Bellefonte|||	do.....		.12		2.58				.11				.33							.55											.42		4.11		
Bethlehem|||	Lehigh.....									1.00						1.55	.56			2.40											.60		6.11		
Blosserville|||	Lower Susq.....								.80		.01	.47	.01		.02	.33	.13			1.35										.30		2.45			
Bustleton|||	Lower Del.....	.02	.31							.01	.62	.10	.06			.09	.11	.04			.01	.05					.01	.01		T.	.23	.11	2.72		
Carlisle|||	Lower Susq.....							1.10			.62	.10	.06			.09	.11	.04			.13	.25								.73	T.		3.22		
Catawissa|||	N. Br. Susq.....		.22						.03	.02	.12	.14		T.		.54				2.06	.06								.20	.16	.50		4.01		
Center Hall|||	Susquehanna.....	.48					.94			.43					.28	.46				1.36	.03								.36	.12	.66		4.66		
Chambersburg|||	Potomac.....	1.80	.52						.08	.16	.64	.02			.16	.28				1.56								T.	.12	.55	.03		4.56		
Clearfield|||	W. Br. Susq.....								3.00	.02	1.67				.58					1.32	.02					T.				.27	.80		7.83		
Coatesville|||	Lower Del.....	.07							.02	.74	.02	.03			T.	.23	.04			T.	.09									.81	.04		2.09		
Colebrook|||	Lower Susq.....	.01				T.			.01	1.32	T.	.16	T.	T.		.04	T.			.30	.01									.16	T.	.03	2.05		
Cresson|||	Juniata.....									1.50	1.98		.15	.15	.36				2.10									.70		2.10	.15		9.19		
Doylstown|||	Lower Del.....	T.	.09						2.02	T.	T.	T.			.24	.46		.22		.20	.14									.20	.25	.05	.08	3.95	
Driftwood|||	W. Br. Susq.....					.03				T.	.03				.01	.04	T.			.06	.03									T.	1.03		1.23		
Emporium|||	W. Br. Susq.....	.10				.04				.17	T.	1.05		.45	.55					.81								T.		.24	.56		3.97		
Ephrata|||	Lower Susq.....	T.	T.					T.	1.16	.03					.02					.23							.09			.19	.12		.06	1.90	
Everett|||	Juniata.....	1.03							.05		.30	.03			T.	.58				.49								.12			.60		3.20		
Freeland|||	Lehigh.....	.12	.14						T.	2.86	.01				1.02	.84				.82	.02									T.	1.12	.36	7.31		
Forest City|||	N. Br. Susq.....	.37							.07	.42					1.34					.82										.03	.17		3.25		
George School|||	Lower Del.....	.05	.02	.01					T.	.91	T.	T.	.03		.17	.10	.02			T.	.05					.03			.02		T.	.15	.06	.13	1.72
Gettysburg|||	Potomac.....	1.36							1.17	.05	.17				T.	.15				2.15	.17									.05	T.	.38	.10	5.75	
Girardville|||	Schuylkill.....		.12					.20		.02	2.02				.09					4.85										.09	.24		7.63		
Gordon|||	Lower Susq.....								.30	.08	.56				.58					2.00	.19								.02	.34			4.07		
Gouldsboro|||	Lehigh.....	.06	.23						.16	.12	1.06				.38	.26				1.36	.18										.16	.28		4.25	
Graterford|||	Schuylkill.....	.48	.04						.26	.41			.18	.21																	.12		1.70		
Hamburg|||	Schuylkill.....	.30	.60					.01	.94	.60									.30	2.10	.08										.16		5.09		
Hanover|||	Lower Susq.....	.40							.03	.08	.03	.06				.55				1.77										.06	.17	.22	3.37		
Harrisburg***	do.....	T.	T.			T.		.10	T.	.21	.14	T.			.13		.02		.15											.17	.34		1.26		
Hawley|||	do.....									1.97					.66	.80				1.30											.12	.47	T.	5.32	
Holtwood|||	Lower Susq.....	.27							.45	1.50	.05									.35									.37		1.80		4.79		
Huntingdon|||	Juniata.....	.07	.03			.07		.04	.01	.09	.35	.38	.65	.17	.22					.65	.05								.45	.02	.07	.48	.02	3.82	
Jersey Shore|||	W. Br. Susq.....	.21	.02					.19		2.03	.14				.29					.72	.12										.90		4.66		
Lancaster|||	Lower Susq.....	.19				.04			.59			.03				.15				.22	.16										.80	.06	3.45		
Lansford|||	Lehigh.....	.02	.12						.02		1.26				.48	.29				3.40											.62	.05	6.26		
Lawrenceville|||	N. Br. Susq.....	T.							.05		T.	T.			.70				1.40	.25											.40		2.80		
Lebanon|||	Lower Susq.....	.12	.10						.16	T.	T.	.78	T.	.25		.50				T.	.23									T.	.38	T.	.18	2.20	
Lewisburg|||	W. Br. Susq.....		.03			T.			.10	.19					.05	.50				1.72	.40										T.	1.19		4.18	
Lloyd|||	Pine Creek.....	.75	.03			.10				.38					.05					.12											.28		1.84		
Lock Haven|||	W. Br. Susq.....	.23				.03				.89	.18	.30			.32					.86	.05						.03				.03	1.23		4.15	
Lykens|||	Susquehanna.....		.02						.49	.42	.33	.70			.08		.01			.68											.91	.64		2.69	
Marcus Hook|||	Delaware.....			.04						.38	1.30					.08				.34												.04		5.79	
Mauch Chunk|||	Lehigh.....	.10							1.00	.03			.18	.62	.02					1.50	1.00										.43		4.86		
Millintown|||	Juniata.....	1.46							.36	.10	.17				.70					.14											.40		3.33		
Millford|||	Upper Del.....	.50							1.15						.40					1.35													.25	3.65	
Montrose|||	N. Br. Susq.....	.05	.50			.20				.95			.34	.20	.22					1.00	.25										.75		4.46		
Mount Pocono|||	Juniata.....	.25	.01					.03		.60	.50	.06			1.30	.70				1.35											T.	.70	.10	5.95	
Mount Union|||	Upper Del.....							.55			.20	.31			.13					.75	.10		.03							T.	.70		3.26		
Muncy Valley|||	W. Br. Susq.....	.04	.38			.07			2.06	.66					.65					.06											.33	1.59		6.66	
Narberth|||	Lower Del.....	.01	.24				T.		.86	.13	T.	.08			1.63	T.				T.	.06	.01									.28	.12	.5		

Daily Precipitation for July, 1921.—Continued from page 27.

Stations.	Drainage Basin.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Creekside	Allegheny																																				
Davis Isl. Dam	Ohio								1.44				T.		.01		.05				.51							.04	T		.05	.17	2.27				
Derry	Conemaugh	T						.53	.47			.28			.70	.83				.84	.05		.04							.53	.59	.04	4.27				
Ebensburg	Conemaugh											.55		.08	.14	.41	.48			1.00	.24					.12	.33		.02	1.83		5.83					
Edinboro	Allegheny							1.14	.14			.06	.78		.27					.43	.09					.15	.19	T.	.29		.06	3.60					
Elk Lick	Youghiogheny					.63		.20	.20	1.30		.46	.03	T.	.03	.28	.13			.54	.03								.47	.21		4.51					
Falls Creek	Allegheny	.04						.19	.04	.28	T.	.58	.03		.66					.54	.05					T.			1.05	1.03		.02	4.51				
Franklin	Allegheny							1.15	1.18			1.11	.50		1.45	.66					.67						.43		.37	.83	.04	8.39					
Freeport	Allegheny							.49				.06			.05	.46					.39							T.	.06	.18	T.	.74	2.43				
Greensboro	Monongahela																																4.16				
Greensburg	Youghiogheny							.29	.26			.68	.15	.01	1.53	.07				.61	T.					.05			.08	.39	.04		6.27				
Greenville	Beaver							1.01		.02	.83				.27				.70						.98	.15	.89	T.	1.42	T.			6.57				
Grove City	Youghiogheny							.59	2.65	.27					.24					.63									T.	.73		.46	3.24				
Herr's Isl. Dam	Ohio					T.			1.31			T.				.15				.85							.78	.01	T.	.05	.09		3.64				
Indiana	Conemaugh	.02						.27	.08			.30	T.			.10				.63						.30	.05		.67	.63	.27	.32	3.04				
Irwin	Youghiogheny							1.07	.52	T		.05	.03	T.		.32	T.			.65							.04	.20	.40			3.32					
Johnstown	Conemaugh	.08				.03		.08	.06			.34	.01			.58	.33			.85	T.			T.					.01	.71		1.00	3.08				
Ketner	Allegheny	.10						.18				.20	.61	.48		.15				.63								.06	.13	.55		3.04					
Linesville	Beaver							.24	.01	.30		.50	.49	.09	.22					.42								.09	.18	T.	.53	.29	T.	3.37			
Lock No. 4	Monongahela								.38	.57				.15	.01	T.	.21				.40									.78	.97		3.47				
Lycippus	Conemaugh							.77	.17			.89	.18			1.50				.40						T.			T.	.78	T.		4.69				
New Castle	Beaver							.94	1.22			.02	.04			.19				.50							.02		.72	.28	.20	.03	3.66				
Newell	Fayette							.37	.01			.34	.45	.05	.04	.10				.50						T.			T.	.30	1.11		3.27				
North Shenango	Beaver							.21			.14	T.			.55		.22						.15						.82		.32		2.41				
Parkers Landing	Allegheny	.40						1.60				.85	.10			.22				.77							T.	.03	.10	.34	.92	.05	5.49				
Pennline	Beaver							.31	T.	1.78		.25	.80			.12	.45				.26							.08	.93		.20	.17	5.35				
Pittsburgh***	Ohio					T.		.69	.01	T.	T.	T.	T.	T.	T.	.20				.82						.92			.01	.16	T.		2.81				
Ridgway	do					.10					1.19	.07	.26			.16				.51	.02						.15		.27	.76	.10		3.59				
Saltsburg	Conemaugh							.68	T.			1.10	.01			.11				1.52									.44	.21		4.07					
Sharon	Beaver							.50	T			.42	.83			.41	T.				.45								.18	.29	.43	3.51					
Somerset	Youghiogheny	T.						.35	.05	.25	.40	T.		1.20					1.66							.22	.21		.80	.10		5.24					
Springdale	Monongahela							.88	T.		T.	.64	.03		.01	.30				.75							.03		.60	.35	.25	3.84					
Summit	Beaver							.12	.08	.26	1.35	.50			.95												.40	.54	.10	.20		4.50					
Tionesta	Allegheny							.33				.15			.46					.68	.08							.39	.31		.77	.81	3.98				
Turnerville	Beaver																																				
Uniontown	Monongahela							.92			.34	.40	.01		.03	.30				.47	T						T		T.	1.42	.62		4.51				
Vandergrift	Beaver					.44		.02		.21		.26	.03		.44					.64										.09	.29	.04	.10	2.56			
Warren	Allegheny							.48				.02			.75	.45				.68								1.10	.25	.48	.32	.36	4.89				
Waynesburg	Green																																				
Westford	Beaver							.08			T.		1.10			.35					.73								.68	.12	.68	.45	4.19				
West Newton	Youghiogheny							.46	.27			.27	T.		.16	T.	.30				.39							T.		.06	.52		2.43				
Lake Drainage.																																					
Erie***	Lake Erie							.18					.91			.03			T	.67							.06		.96		.23		.01	3.05			
West Bingham	Genesee							.45	.80	.40	1.00	.06	.33		.40	.41				1.43	.05						.11	.04		T.	.12		5.60				

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement. T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

Daily Temperatures for July, 1921.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
Altoona.....	78	83	89	91	90	85	87	92	85	86	83	79	84	84	82	80	82	85	84	79	81	80	83	85	87	87	90	87	88	82	81	84.5	
	67	61	63	62	68	69	65	69	68	65	65	62	68	63	67	64	61	55	55	57	53	58	65	66	69	66	59	66	59	65	62.8		
Brookville.....	83	87	93	93	96	92	92	92	87	84	91	85	89	91	83	82	87	90	82	78	81	85	86	90	89	91	89	75	66	80	86.5		
	59	55	57	57	60	61	65	53	65	62	59	60	65	62	55	48	52	48	59	55	51	50	55	49	49	59	58	66	59	51	56.9		
Catawissa.....	80	84	95	96	94	87	91	95	90	90	85	90	90	92	81	89	91	91	89	88	89	88	90	91	93	92	95	93	75	88	90	89.4	
	68	66	63	64	71	64	71	70	68	67	73	73	74	73	71	59	58	64	70	65	66	60	59	61	59	64	64	68	67	66	59	65.6	
Chambersburg.....	81	86	93	94	92	86	90	96	91	89	85	87	89	87	84	86	86	87	88	87	86	84	88	89	93	92	94	92	89	88	90	88.7	
	67	63	62	61	67	71	65	67	69	70	72	69	68	68	70	60	57	59	65	67	61	61	57	58	59	65	65	67	69	67	64	64.9	
Emporium.....	86	85	86	84	86	88	70	62	65	65	86	84	65	66	63	52	55	55	63	62	54	54	58	58	62	61	67	66	76	82	78	82.7	
	65	65	64	65	65	65	64	65	65	65	64	65	66	63	52	52	55	53	62	82	78	80	86	90	89	86	89	84	76	85	74	85.4	
Erie.....	88	88	92	91	91	93	90	90	85	86	84	84	88	88	80	82	86	92	82	78	78	80	86	90	89	86	89	84	76	85	74	85.4	
	68	67	70	73	76	76	78	73	72	70	71	72	71	74	71	65	64	73	70	68	64	62	67	69	69	71	71	76	66	65	64	69.9	
Grove City.....	84	87	91	91	93	91	90	91	83	80	84	86	86	87	83	81	84	87	84	77	78	83	86	87	86	88	89	92	82	85	82	85.7	
	64	59	62	64	66	70	71	68	67	62	65	64	69	67	68	56	58	63	71	63	55	55	60	57	60	65	64	73	64	59	65	63.7	
Harrisburg.....	79	87	95	95	90	83	92	95	93	82	84	86	87	88	81	86	86	87	86	87	84	86	88	88	92	93	93	93	80	90	88	87.8	
	69	69	69	71	74	69	71	73	74	70	71	72	72	74	72	65	64	68	71	71	69	65	64	68	65	73	72	75	72	68	70	70.0	
Holtwood.....	82	90	93	95	93	90	95	99	93	90	90	90	93	91	91	84	88	86	90	90	89	84	90	88	92	92	92	92	88	88	90	90.3	
	72	72	73	75	73	73	77	75	73	75	75	75	77	79	72	68	70	73	75	65	65	62	71	70	72	70	75	72	69	72	60	71.7	
Indiana.....	86	90	93	95	96	91	92	94	87	85	89	83	90	91	90	86	91	94	89	83	84	86	89	93	90	90	93	91	73	85	82	88.7	
	65	61	63	63	67	65	69	68	67	67	60	63	69	56	60	56	56	60	67	63	74	58	58	58	59	65	68	60	63	66	63.2		
Mount Pocono.....	71	76	77	76	77	78	77	76	75	74	70	67	64	71	66	72	70	69	66	67	66	69	71	74	76	75	74	76	70	68	70	71.9	
	56	56	58	59	56	57	56	57	55	55	56	55	50	51	50	51	52	53	47	45	47	49	50	50	53	54	55	57	54	50	46	52.9	
Philadelphia.....	76	75	94	96	85	83	88	91	94	84	84	81	82	89	83	82	85	86	88	90	82	82	86	87	92	92	92	92	86	87	90	86.7	
	65	67	71	77	66	66	72	75	77	73	73	72	72	75	68	67	68	67	71	73	67	66	69	70	71	70	74	76	71	72	67	70.6	
Pittsburgh.....	87	89	93	93	94	90	92	91	85	86	83	87	85	88	84	84	88	91	81	79	81	85	88	89	89	89	91	89	79	86	79	87.1	
	70	65	70	70	71	75	74	67	68	68	68	67	71	72	71	63	63	68	72	67	62	62	67	68	67	67	70	72	71	66	62	68.2	
Reading.....	78	82	96	97	83	84	91	94	90	84	82	85	87	89	83	85	87	89	89	88	85	84	89	91	94	91	94	93	81	89	91	87.9	
	67	68	68	73	67	66	71	76	74	71	72	72	71	74	68	64	65	68	72	70	66	63	64	68	65	73	71	76	71	69	66	69.3	
Scranton.....	76	82	91	96	88	83	94	93	89	80	81	87	90	87	83	87	87	85	81	87	85	81	83	84	89	88	91	89	92	76	82	84	85.5
	65	66	64	68	70	64	70	72	68	68	71	72	68	70	64	58	60	62	67	64	62	61	60	68	64	67	67	73	68	66	59	66.0	
Somerset.....	82	86	89	91	92	85	91	90	85	84	84	82	86	80	82	83	81	92	80	78	80	82	88	90	87	85	92	90	82	87	82	85.5	
	64	58	59	67	70	68	64	65	64	65	62	62	63	65	64	55	57	60	65	62	50	52	54	51	55	62	61	66	65	63	62	61.3	
State College.....	76	83	84	90	90	83	89	90	88	85	83	82	85	86	80	82	84	86	83	79	81	82	84	84	86	87	90	89	72	84	80	84.1	
	65	63	61	62	69	57	66	68	66	64	66	64	64	68	67	55	57	61	66	64	57	57	56	60	58	64	63	72	65	62	66	63.0	
Towanda.....	80	84	90	91	92	88	94	94	89	83	87	87	91	90	80	81	88	88	84	80	81	84	88	90	92	89	91	90	78	74	83	86.5	
	67	66	64	65	68	66	70	69	67	67	69	68	65	70	67	55	55	59	68	64	67	58	56	60	58	65	62	74	67	62	62	64.5	
Uniontown.....	84	86	89	91	92	90	91	94	86	80	87	82	86	84	82	85	89	84	83	80	83	85	88	88	91	89	87	87	85	84	86.5		
	65	61	63	65	80	81	78	70	69	67	67	65	70	65	69	65	57	63	70	68	57	55	57	60	75	68	74	77	69	65	71	67.4	
Warren.....	87	90	93	92	94	95	93	92	88	92	90	91	92	87	84	89	90	83	85	80	81	87	91	92	93	90	90	74	88	77	88.2		
	64	60	61	63	64	65	70	65	65	64	65	66	65	68	54	60	58	68	60	62	55	55	55	55	61	62	71	65	60	55	62.2		
Wellsboro.....	79	88	91	92	94	91	93	93	84	88	85	86	88	87	77	81	80	85	80	77	80	85	86	87	90	90	83	85	75	79	85.3		
	64	60	55	57	62	64	66	65	64	63	64	65	63	64	64	48	65	54	66	59	52	56	54	53	63	59	57	65	62	56	57	60.2	
Williamsport.....	83	89	92	96	96	88	92	97	92	89	89	88	91	90	89	88	89	89	89	85	86	86	89	92	94	91	95	96	89	87	88	90.1	
	69	68	64	66	70	70	71	72	70	68	72	69	70	71	58	59	60	70	67	61	60	60	63	61	66	64	68	67	65	65	66.2		

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

OCT 6 1921

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

VOL. XXVI PHILADELPHIA, PA., AUGUST, 1921. No. 8.

GENERAL SUMMARY.

The month was unusually pleasant and free from destructive storms. It was the coolest August since 1915, and the rainfall averaged less than in any August since 1916. The number of days with fair weather was considerably above the August average, although there were only two or three days with oppressive heat.

Heavy rains occurred in the first week and timely showers occurred at intervals after that as late as the 18th. These were sufficient in nearly all sections of the State to keep crops and vegetation in healthy condition until near the end of the month when the need for rains again became acute in many places. Wells and streams were reported dry or very low in central counties at the end of the month, especially toward the northern border of the State.

At the close of the month the condition of the corn crop was generally good to excellent with a noticeably rapid development toward maturity. Pastures were mostly good, and late hay was being cut and cured under exceptionally favorable weather conditions. Potatoes appeared poorer than in most seasons, though the late varieties indicated better returns than early ones produced. Preparation of ground was being made for fall seeding, and farm work generally was well abreast of the season. Buckwheat appeared to be better than the average crop, while truck crops and vegetables were plentiful and of good quality in most places.

TEMPERATURE.

The average temperature for the State, as determined from the records of 74 stations, was 68.4°, which is 2.0° below normal. The highest mean temperature was 72.7° at Philadelphia, and the lowest mean was 63.4° at Ebensburg. The maximum temperature for the month was less than 90° at most places more than 1000 feet above sea level, and exceeded 95° at only three stations. The highest temperatures occurred mostly on the 30th or 31st. The maximum for the State was 97° at Lancaster.

Minimum temperatures were below 50° at most stations, though the lowest at Philadelphia was 58°. At most places the lowest temperatures occurred on the 22d or 23d, though it was almost as cool on the 15th and 16th. The minimum for the State was 35° on the 23d at Ebensburg and Mount Pocono. Light frosts were reported in the vicinity of Corry and Grove City on the 22d and near Johnstown on the 23d, but there was no apparent injury to vegetation.

PRECIPITATION.

The average rainfall for the State, as determined from records of 135 stations was 3.83 inches, which is 0.32 inch below normal. The rainfall was quite unevenly distributed over the State, nearly all of the northern tier counties having less than 3.00 inches of rain. This was also true of several regions through the central part of the State from west to east, and of most of Chester County, while over the vicinity of Philadelphia and some of the southwestern highlands the rainfall was more than 6.00 inches. Precipitation totals ranged from 6.68 inches at Waynesburg to 1.81 inches at Towanda. The greatest 24-hour rainfall was 3.75 inches at Philadelphia on the 7th and 8th.

G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Total move- ment, in miles.	Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.			Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	281.5	428.7	66	70	70	9,318	12.5	48	w.	17
Harrisburg.....	301.6	425.1	71	74	62	4,008	5.4	21	n.	14
Philadelphia.....	268.1	425.1	63	79	72	5,967	5.0	28	n.	21
Pittsburgh.....	286.4	426.9	67	76	63	6,123	5.2	36	sw.	11
Reading.....	328.0	425.0	77	76	64	3,843	5.2	24	n.	14
Scranton.....	.....	.....	.....	76	64	4,143	5.6	23	sw.	7

* For any five-minute period.

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	69.8	100	33	7.05	11.27	3.18	.....	.....	.....
1889.....	67.4	100	37	3.24	7.07	0.83	.....	14	5
1890.....	68.8	98	34	5.76	9.65	2.58	.....	8	11
1891.....	69.6	99	35	5.09	11.77	1.43	.....	12	10
1892.....	71.4	99	42	3.77	7.64	1.07	14	7	7
1893.....	70.4	99	30	4.50	9.99	1.68	14	10	6
1894.....	69.1	98	32	1.84	5.51	0.17	13	12	5
1895.....	72.3	101	32	3.23	6.03	0.59	15	11	6
1896.....	71.2	101	35	2.22	6.53	0.45	14	11	5
1897.....	67.9	97	34	3.17	8.60	0.34	14	11	6
1898.....	72.3	99	37	6.60	11.32	3.72	11	11	9
1899.....	71.2	101	38	4.01	10.09	0.07	14	10	5
1900.....	75.0	103	38	3.33	5.78	0.84	14	12	5
1901.....	72.0	99	42	6.81	13.65	2.48	10	12	9
1902.....	67.8	100	34	2.62	6.44	0.51	13	13	5
1903.....	67.2	99	36	5.29	8.05	2.00	9	12	10
1904.....	68.0	96	34	4.36	9.64	1.66	15	10	6
1905.....	69.6	95	36	5.71	10.83	1.92	12	12	7
1906.....	73.2	96	39	5.62	11.65	1.62	10	12	9
1907.....	68.0	97	32	2.94	6.19	0.77	16	9	9
1908.....	69.4	102	30	3.22	8.06	1.22	15	10	6
1909.....	69.4	100	34	2.31	7.76	0.12	16	9	6
1910.....	69.8	98	35	2.61	6.46	0.55	14	10	7
1911.....	71.4	102	36	7.63	15.14	2.60	11	8	12
1912.....	67.1	93	36	5.02	9.65	1.68	9	12	10
1913.....	70.4	102	38	2.69	10.93	0.70	17	9	5
1914.....	71.3	100	34	3.85	7.20	0.64	13	11	7
1915.....	68.0	99	34	6.71	14.44	1.92	10	11	10
1916.....	71.9	103	32	2.57	7.08	0.21	17	10	4
1917.....	71.2	101	38	6.69	17.50	1.06	15	10	6
1918.....	73.6	108	32	4.12	8.02	1.05	16	10	5
1919.....	68.2	94	35	5.43	12.03	2.35	13	10	8
1920.....	70.2	95	37	4.66	3.29	1.93	9	12	10
1921.....	68.4	97	35	3.83	6.68	1.81	17	8	6

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	2.2	2.8	1	1.5	31	18
Phillipsburg.....	Delaware.....	1.1	2.6	4	0.3	30	22
Mauch Chunk.....	Lehigh.....	4.8	5.3	4	4.5	28	15
Wilkes-Barre.....	Susquehanna.....	2.9	3.5	2	2.3	30	20
Williamsport.....	Susquehanna.....	1.9	6.4	9	0.6	31	20
Harrisburg.....	Susquehanna.....	3.7	4.6	11	3.3	30	17
Freepport.....	Allegheny.....	3.6	8.5	9	2.0	31	22
West Newton.....	Youghiogheny.....	2.6	8.1	4	1.5	31	20
Greensboro.....	Monongahela.....	.....	.....	.....	.....	.....	.....
Pittsburgh.....	Ohio.....	5.9	7.6	4	4.9	6	22
Beaver Dam.....	Ohio.....	8.6	11.5	5	6.9	26	30

Climatological Data for August, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.		Cloudy.	Prevailing direction of wind.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	34	66.3	-3.3	88	30	42	22	35	3.89	+0.60	1.27	0	8	22	7	2	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	37	69.6	-3.7	95	30	48	22	32	3.15	-1.15	1.35	0	4	6	22	3	w.	Prof. Chas. H. Rominger
Bustleton.....	Philadelphia.....	125	2	70.1	.....	92	30	50	23	30	6.40	.....	2.50	0	8	16	8	7	sw.	Experiment Station.
Carlisle.....	Cumberland.....	467	54	70.2	-2.5	96	30	45	23	35	3.42	-1.34	0.80	0	10	22	2	7	se.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	24	69.0	-1.3	95	30	44	22	37	3.83	-0.23	1.27	0	7	22	4	4	w.	H. H. Yetter.
Center Hall.....	Center.....	1,272	25	66.2	-3.0	91	31	41	22	38	3.56	-0.41	1.36	0	8	24	5	2	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	21	68.9	-3.3	93	30	45	23	35	5.14	+0.90	1.54	0	9	17	8	6	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	11	68.4	-2.0	94	29	41	16	43	5.47	+0.63	2.20	0	11	21	5	5	nw.	E. W. Hess.
Coatesville.....	Chester.....	380	33	71.1	-1.7	96	30	47	27	34	2.96	-1.41	0.92	0	9	17	10	4	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	11	69.4	.....	94	30	49	23	33	2.97	.....	0.94	0	10	20	4	7	se.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	33	64.8 ^b	-3.1	86 ^b	30	39 ^b	22	35	4.09	+0.12	1.01	0	9	15	9	7	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	20	69.9	-1.9	93	31	50	22	29	3.74	-1.16	0.97	0	7	19	7	5	n.	E. K. Hershey.
Everett.....	Bedford.....	1,080	23	63.7	-6.2	88	31	38	19	40	22.5	-1.79	0.95	0	3	24	7	0	s.	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,873	6	65.1	.....	86	30	44	22	30	4.67	.....	1.61	0	11	18	7	6	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	14	69.2	-2.2	93	30	49	27	31	5.19	+0.81	2.00	0	10	21	1	9	s.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	47	70.7	-1.0	95	30	45	15	36	5.67	+1.69	1.69	0	8	19	6	6	s.	Col. E. B. Cope.
Gordon.....	Schuykill.....	840	17	66.2	+2.0	91	30	40	22	38	3.21	-1.66	1.00	0	7	22	4	5	sw.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	28	.....	.....	93	29	45	22	.....	2.82	-2.51	0.95	0	5	22	6	3	w.	State Sanatorium.
Hanover.....	York.....	600	17	70.8	-2.8	93	30	51	22	29	4.05	-0.72	1.09	0	9	23	3	5	s.	Miss Olive M. Ryder.
Harrisburg.....	Dauphin.....	361	51	70.9	-1.8	93	30	52	23	26	3.12	-0.97	1.23	0	9	15	7	9	s.	U. S. Weather Bureau.
Huntingdon.....	Huntingdon.....	650	33	68.1	-2.6	93	29	42	22	41	3.46	-0.57	0.93	0	10	23	2	6	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lyeomg.....	570	1	69.2	.....	92	29	43	22	38	4.86	.....	1.85	0	11	24	1	6	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	49	69.3 ^a	-2.6	90 ^a	31	51 ^a	27	25	.....	.....	.....	.....	17	11	3	sw.	W. P. Merer.	
Lancaster.....	Lancaster.....	255	33	70.2	-2.5	97	30	45	22	36	3.48	-0.37	0.96	0	8	23	7	1	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	23	66.0	-2.1	92	29	40	22	42	2.90	-0.94	1.10	0	6	20	8	3	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	80	70.8	-1.2	95	30	47	22	33	3.47	-1.08	1.11	0	9	15	12	4	w.	S. B. Benzing.
Lewisburg.....	Union.....	450	46	69.0	+0.1	93	30	43	22	36	4.32	-0.33	1.54	0	8	19	7	5	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	33	67.5	-3.8	93	30	39	22	42	5.48	+1.33	1.49	0	9	11	14	6	w.	Prof. J. A. Robb.
Ohio Drainage.																				
Lykens.....	Dauphin.....	680	6	68.6	.....	95	30	38	22	41	3.22	.....	1.21	0	9	23	6	2	nw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	1	69.1	.....	95	30	49	23	31	5.82	.....	1.86	0	9	20	6	5	nw.	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	31	68.3	-2.0	93	30	43	23	38	3.01	-1.99	1.08	0	10	15	13	3	w.	R. K. Wintermute.
Millintown.....	Juniata.....	445	17	70.2	-0.4	95	30	40	23	43	2.92	-1.35	1.04	0	8	15	10	6	nw.	Wellington Smith.
Midford.....	Pike.....	500	18	64.1	-3.6	90	30	40	22	37	2.05	-2.22	0.85	0	5	21	9	1	w.	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	18	64.3	-2.6	92	30	44	22	33	2.56	-1.54	0.86	0	7	24	3	4	s.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	19	.....	.....	35	.....	.....	.....	.....	3.03	-1.05	0.80	0	8	9	15	7	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	9	64.6	.....	90	31	41	22	34	4.84	.....	1.18	0	8	16	8	7	.....	A. H. Boatman.
Narberth.....	Montgomery.....	300	2	70.3	.....	93	30	52	27	27	4.47	.....	1.12	0	11	10	10	11	nw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	32	69.8	.....	94	30	51	16	30	6.62	.....	3.60	0	10	19	4	8	w.	North Springfield Water Co.
Palmerston.....	Carbon.....	398	4	63.1	.....	92	30	44	23	36	2.75	.....	1.20	0	8	20	8	3	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	50	72.7	-1.8	94	30	58	27	24	6.01	+1.58	3.75	0	10	8	14	9	s.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	5	72.6	.....	92	30	57	27	22	5.25	.....	1.91	0	10	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	10	70.0	.....	95	30	48	27	29	2.68	.....	1.59	0	5	21	7	3	nw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	36	68.4	-1.9	95	30	43	27	37	3.04	-1.16	1.11	0	10	17	10	4	nw.	John E. Benner.
Reading.....	Berks.....	325	51	71.0	-1.4	94	30	53	22	38	4.13	-0.06	1.98	0	7	19	6	6	se.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	10	71.2	.....	94	30	52	22	32	3.91	.....	1.91	0	8	18	8	5	w.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	26	67.8	-1.4	90	30	47	23	32	2.96	-0.71	1.04	0	7	13	9	9	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	31	68.8	-2.7	93	30	42	26	39	3.56	-0.79	1.04	0	7	23	3	5	nw.	Prof. Thomas C. Iloutz.
Shawmont.....	Philadelphia.....	51	25	72.4	.....	92	30	53	27	30	4.21	-0.81	1.40	0	8	19	8	4	sw.	W. S. Gullies.
State College.....	Center.....	1,217	36	65.4	-3.3	87	30	41	22	32	4.03	+0.33	1.37	0	8	13	14	4	w.	Prof. Wm. Frear.
Stroudsburg.....	Monroe.....	500	9	66.2 ^a	.....	93	30	41	22	38 ^a	3.40	.....	1.00	0	10	27	1	3	.....	H. Q. Snyder.
Towanda.....	Bradford.....	754	26	66.8	-1.7	94	30	43	22	38	1.81	-1.97	0.61	0	8	18	8	5	s.	Hiram E. Bull. C. E.
Wellsboro.....	Tioga.....	1,419	55	63.4	-3.0	89	30	37	22	43	2.96	-0.78	1.54	0	8	23	1	7	sw.	George W. Hill.
West Chester.....	Chester.....	455	87	70.2	-1.8	92	31	52	15	28	2.58	-0.72	0.75	0	9	17	9	5	nw.	Arthur M. Hay.
Williamsport.....	Lyeomg.....	521	34	69.0	-1.7	93	31	45	22	35	3.92	-0.30	1.00	0	9	20	6	5	se.	Jacob April.
York.....	York.....	400	33	68.7	-3.9	95	30	41	28	44	3.75	-0.50	1.00	0	10	20	4	7	n.	York Water Co.
Lake Drainage.																				
Beaver Dam.....	Beaver.....	700	28	71.4	.....	90	24	48	22	35	2.78	-0.95	1.27	0	10	9	14	8	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	6	64.6 ^b	.....	90 ^c	28	35 ^c	22	44 ^c	2.41	.....	0.79	0	7	15	10	6	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	3	65.6	.....	88	29	40	15	43	3.63	.....	1.07	0	8	14	13	4	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	30	63.8	.....	89	30	36	22	44	4.30	+0.23	1.20	0	8	17	11	8	.....	John Fawcett.
Claysville.....	Washington.....	1,150	17	69.2	-2.3	92	29	42	1	42	4.20	+0.12	0.98	0	10	14	9	8	n.	J. L. Melvin.
Corry.....	Erie.....	1,400	9	65.8	.....	90	29	38	22	39	2.84	.....	0.80	0	10	16	11	4	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	24	68.5	-2.8	91	28	42	22	43	3.58	-0.42	1.02	0	8	15	8	8	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	3	63.4	.....	85	30	35	23	39	4.35	.....	2.31	0	9	21	3	7	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,20																		

Daily Precipitation for August, 1921.

Stations.	Drainage Basin.	Day of month.																														Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	
Atlantic Drainage.																																		
Allentown	Lehigh	.02	1.70	.30				1.80											.10														3.92	
Altoona	Juniata	1.00	.72				.11	1.27				.32			.07			.05	.35														3.89	
Ausonia	N. Br. Susq.	.22	.65	T.			.41	.53				.46			.04			.60								T.							2.91	
Arendtsville	Potomac	1.45	1.60				.19	.32				.07			.20			.39											.95		.16		5.33	
Austin	W. Br. Susq.																																	
Bellefonte	do.	1.34	2.20					.30							.17			.11		.15		.15									.10		4.37	
Bethlehem	Lehigh	.70	.95					1.35										.15															3.15	
Blosserville	Lower Susq.	1.80					.80					.30			.20				.63														3.10	
Bustleton	Lower Del.	.48	.76				.51	2.50				.01		1.36				.15															6.40	
Carlisle	Lower Susq.	1.71	.80	.02			.13	.73	.30			.20			.17			T.	.21		T.	.15											3.42	
Catawissa	N. Br. Susq.	.02	.59				T.	1.27				.15			.06			.52	.22		T.											T.	3.83	
Center Hall	Susquehanna																																	
Chambersburg	Potomac	1.54	1.36	.01			.36	1.01	.24			.17		T.				.44													.01		5.14	
Clearfield	W. Br. Susq.	.88	.50				2.20	.20				.21	.04	.58				.17	.58		.08										.03		5.47	
Coatesville	Lower Del.	.58	.77				.13	.79				.16		.08				.03	.40			.02											2.96	
Colebrook	Lower Susq.	.82	.94	T.			.06	.42	.02			.05		.38				.05	.08		.15												2.97	
Cresson	Juniata	.90	.60				.28	1.30				.40			.30			.35													T.		4.13	
Doylestown	Lower Del.	.72	1.07	.02			T.		1.09			T.		.21				.30	.14										T.		T.		3.55	
Driftwood	W. Br. Susq.	1.04	.30				1.00	.02						.80				.60	.70														4.46	
Emporium	W. Br. Susq.	1.01	.10				.16	.93				.80	.14	.22				.56	.17		T.								T.				4.09	
Ephrata	Lower Susq.	.78	.97					.68	.70			.04		.47				.10															3.47	
Everett	Juniata	.95						.50										.80													T.		2.25	
Freeland	Lehigh	.08	1.61	.28			.01	.08	1.20			.26	.33		.24			.56	.02		.04											T.	4.67	
Forest City	N. Br. Susq.	.39						1.05				.35	.02	.33				.18	.16			.04									.07		3.05	
George School	Lower Del.	.01	.61	1.15			.04	.30	2.00	.01				.37				.21	.49														5.19	
Gettysburg	Potomac	1.69	1.36				.15	1.29	.05			.10		.13				.21	.49												T.		5.67	
Greenville	Schuylkill	1.82	1.34	.08	1.38		.03				.48			T.			.19		.03													T.	.03	5.38
Gordon	Lower Susq.	.80	1.00				.14	.26	.58			.32						.11															3.21	
Gouldsboro	Lehigh	.52	.56	.16				.32	.94			.15			.26			.39						.06									3.44	
Graterford	Schuylkill	1.08					.01	1.63						.85	.08			.18															3.91	
Hanover	Schuylkill	.80	.95					.54			.23	.30					T.													.08		2.82		
Hanover	Lower Susq.	.96	.79	.02			.09	.44	.36			.20		.10				1.09															4.05	
Harrisburg	do.	1.09	.46				.06	.66				.13		.14			.13	T.		.39						T.				.06			3.12	
Hawley	Upper Del.		.55	T.				.92	.40			T.						.42															1.87	
Holtwood	Lower Susq.	.91	.32					.92						.02				.71			.35												3.78	
Huntingdon	Juniata	.93	.81	.03			.30	.67	.02			.08		.20				.11	.31		T.												3.46	
Jersey Shore	W. Br. Susq.	.86	.39				.01	.85	.01		.22	*		1.88			.03	.49			.15										T.		4.86	
Lancaster	Lower Susq.	.83	.96				.08	.12	.58			.15		.40				.36															3.48	
Lansford	Lehigh	.13	1.60	.23				*	.40			.17		.40				.11															2.69	
Lawrenceville	N. Br. Susq.	.40					1.10				T.	.42		.40			.08	.50															2.90	
Lebanon	Lower Susq.	1.11	.97				.05	.34	.27	T.		.16		.38			T.	.12		.07						T.							3.47	
Lewisburg	W. Br. Susq.	.80	.57				T.	.58	1.54					.44				.32		.05	.02												4.32	
Lloyd	W. Br. Susq.	.19	.30					.90			.41	.39																					2.16	
Lock Haven	W. Br. Susq.	.85	.33				T.	1.38			.23	1.49	.06	.58				.13	.43														5.48	
Lukes	Susquehanna	.92	1.21	.02				.14	.56			.15		.13			T.	.07				.02											3.22	
Luzerne Hook	Lower Del.	.59	.91					1.86				.19		.04			.28	.33		.57										.07		1.17	5.82	
Luzerne Chunk	Lehigh	1.08	1.03				.03	.06	.22		.04	.19		.15			.08	.13															3.01	
Mifflintown	Juniata	.88	1.04				.08	.46	.25			.04		T.			.19			.03													2.92	
Milford	Upper Del.	.45	.20					T.			.10		.10		.80			.25	.12														2.05	
Montrose	N. Br. Susq.	.83				T.		.60				.89		.20				.25	.12												.10		2.56	
Mount Pocono	Upper Del.	.76	.80			T.		.10	.80				.05	.20			.16	.20		.01											T.		3.03	
Mount Union	Juniata	1.58	.27				.26	.32				.05		.10			.32		.16														2.78	
Muncy Valley	W. Br. Susq.	1.18	T.					1.02	.41		.11	.92	.35	.32			T.	.53													T.		4.84	
Narberth	Lower Del.	.41	.92	.02			T.	.18	1.12			.03		.65			.22	.79		.10									T.	.03			4.47	
Neshaminy	Lower Del.	.02	.04	1.05	.50			.01	3.60			.03		.06	.08	.05	.53	.15	.72		.01										.14		6.62	
Palmerton	Lehigh	1.20	.56					.62				.03		.06	.08	.05		.15															2.75	
Philadelphia (a)	Lower Del.	.47	.83					3.70	.05			.03		.34			.17	.29		.09												T.	6.01	
Philadelphia (d)	do.	.18	.19	1.35	.33			1.91						.05			.19	.54		.29													5.25	
Phoenixville	Schuylkill	1.59												.63						.20													2.68	
Pottstown	do.	.60	1.06	.05			.04	T.	1.06			T.		.24	.05		.06	.66															3.88	
Portville	do.	.83	1.26				.15	.30	.46			T.		.06			.03	.04															3.29	
Quakertown	Lower Del.	.75	1.11	.02			.02	.01	.50					.37			.10	.09			.07												3.04	
Reading	Schuylkill	.88	.91	T.			T.	1.98				.01		.20			.12	T.		.03													4.13	
Renovo	W. Br. Susq.	.45	.95										.10	.62			1.47				.07												3.66	
Sadsburyville	Lower Del.	.60	.80					1.15	.76			.18		.09			.03	.30															3.91	
Scranton	N. Br. Susq.	.67	.14					T.	1.04			T.	.37		.31			.19	.24													T.	2.96	
Selinsgrove	Lower Susq.	.95	1.04				.03	.55	.28			.12		.54				.59															3.56	
Shawmont	Schuylkill	.48	.78					.20	1.20					.12				.80																

Continued on page 32.

Daily Precipitation for August, 1921.—Continued from page 31.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Creekside	Allegheny																																
Davis Isl. Dam	Ohio	.42	.38					.29	.80					.39	.05	.16	.12		.03	.16	.20												3.17
Derry	Conemaugh	.72	.54					1.02						.44	.22				.65	.19		T.											4.0
Ebensburg	Conemaugh	.86	.06				.03	2.31	.12					.26	.08				.55														3.58
Edinboro	Allegheny	.78					.06	.83					.16	.52	.17				.34	.41													3.31
Elk Lick	Youghiogheny	1.75	2.25					.39						.69	.09				.30	.33													5.86
Falls Creek	Allegheny	.56	.27				1.79							.51	.32				.72	.18													4.43
Franklin	Allegheny	.47	.43				.70	.12						.77	.08	.10			1.11	.02		.08											3.88
Freeport	Allegheny	.94	.25				.58	1.67						.42	T.	.38	T.		.12	.05													4.41
Greensboro	Monongahela																																
Greensburg	Youghiogheny	.75	.53				.82							.59	.33				.24	.08		T.											24
Greenville	Beaver	1.20					.66	.31					.42						.96	.02													18
Grove City	Beaver	.78	.04				.99						T.	.91	.18				.58	.08													
Herr's Isl. Dam	Ohio	.71	.39				.33	.35						.58	.04	.27	.07		.01	.22	.27		T.										
Indiana	Conemaugh	.50	.30				1.45	.05					.65	1.05			.10	.57															34
Irwin	Youghiogheny	.80	.43				.90						.11	.56	.48				.22	.15													80
Johnstown	Conemaugh	.98	.58				.09	1.25					T.	.20	.10				.20	.22													27
Ketner	Allegheny	.86	.12				2.14						T.	.22					.35	.18													
Linesville	Beaver	.52	.18				1.77	.11					1.07	T.	T.	.11			.72	.04	T.	T.											07
Lock No. 4	Monongahela	.53	1.16	.06			.26	.04						.52	.07	.06	.09		T.	.39	.43												05
Lycippus	Conemaugh	1.00	.96				.81							.45	.47				.40	.03													
New Castle	Beaver	.30	.55	.02		.02	.38	.57		.03	.05	1.00		.25	.02				.27	.01													
Newell	Monongahela	.74	.94	T.			.26	.14					.50	.01	.25			.01	.26	.12													87
North Shenango	Beaver	.57	.24				.55	.15					.38				.15																T.
Parkers Landing	Allegheny	.20	.75				.69	.47					.60		.10	.12			.45	T.		.04											
Pennline	Beaver	.55	.30				1.48	T.					.26	.28	.15				.77	T.		T.											09
Pittsburgh	Ohio	T.	1.00	.09			.30	.34					.38	.18	.34				.17	.11													12
Ridgway	Allegheny																																
Saltsburg	Conemaugh	.37	.42	.02			.21	.48					.50	.05	.15	.29			.17	.02													
Sharon	Beaver	.29	.46				.12	.28					.33		.10	.08			*	.56	T.												30
Somerset	Youghiogheny	1.80	.75				.22	1.45					.52		.27			1.10	.22		T.												T.
Springdale	Allegheny	.46	.37				.18	.59					.55		.37	.12			.25	.05													
Summit	Beaver	.55	.60				.74						.69		.40				.34	.47													15
Tionesta	Allegheny		1.02				.79	.15					.56		.23				.79														T.
Turnerville	Beaver	.41	.31				.51	.10					.31		.10				.12														
Uniontown	Monongahela	1.48	1.75				.82						1.04		.30				.10	.14													38
Vandergrift	Conemaugh	.23	.18				1.14						.73	.99					.07	.26													
Warren	Allegheny	.74					.40	.34					.10	.16	.10				.30	.38													
Waynesburg	Monongahela	1.28	.88				1.58						1.28						.40														98
Westford	Beaver	.53	.22				.52	.13					.43		.05				1.39	T.													
West Newton	Youghiogheny	.52	1.00	.21			.25	.04					.27	.09	T.				T.	1.55	.25												
Lake Drainage.																																	
Erie	Lake Erie	.14	1.20				1.98	T.					.32			.05			.37	.02		T.											
West Bingham	Genesee																																

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

Daily Temperatures for August, 1921.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.		
Altoona.....	Maximum...	72	68	64	76	75	77	80	72	78	80	82	80	85	83	73	72	79	77	80	83	75	72	74	75	77	77	74	82	86	88	86	77.6	
	Minimum...	52	57	59	51	49	61	61	59	52	51	59	66	62	63	44	48	57	65	59	58	55	42	44	50	52	48	47	47	57	65	65	55.0	
Brookville.....	Maximum...	75	62	73	80	81	83	80	74	80	84	84	83	85	74	75	77	71	77	82	83	75	74	79	82	76	79	78	86	88	89	86	79.2	
	Minimum...	45	57	55	45	45	59	48	49	41	45	53	59	54	46	39	40	54	55	55	54	44	36	37	43	50	44	42	42	47	53	66	48.5	
Catawissa.....	Maximum...	79	63	66	82	82	76	84	80	83	86	89	86	88	76	81	78	70	83	86	86	78	79	82	86	83	85	83	86	93	95	92	81.1	
	Minimum...	51	60	58	54	55	64	67	58	50	51	62	67	60	59	47	47	57	65	57	57	58	44	46	49	58	48	49	54	56	63	65	56.0	
Chambersburg.....	Maximum...	83	78	67	81	79	80	82	79	84	83	87	84	88	84	79	76	73	82	85	88	81	77	79	81	78	77	77	84	89	93	93	81.6	
	Minimum...	53	60	61	52	52	63	66	59	50	53	59	67	64	65	48	48	56	66	55	57	61	46	45	51	52	48	49	49	59	62	64	56.2	
Emporium.....	Maximum...	74	64	73	77	77	76	81	72	77	81	84	82	80	71	72	71	71	76	78	81	69	71	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum...	46	58	57	44	48	60	69	53	49	51	60	66	56	53	42	44	54	65	55	58	50	39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Erie.....	Maximum...	75	66	75	77	82	81	74	72	79	81	82	76	78	76	72	77	78	70	79	76	67	70	74	76	82	80	79	87	85	85	80	77.1	
	Minimum...	58	60	62	58	60	64	65	63	59	62	68	65	59	60	58	54	64	62	62	62	53	51	54	59	64	62	62	63	66	72	68	61.3	
Grove City.....	Maximum...	76	69	73	77	79	82	80	72	79	83	81	81	83	80	73	75	72	75	80	81	77	71	77	84	79	77	76	80	90	90	90	78.8	
	Minimum...	48	57	59	51	50	61	64	53	49	51	58	66	56	63	45	47	60	66	54	66	49	45	46	48	60	57	54	54	53	61	63	55.3	
Harrisburg.....	Maximum...	80	70	66	81	78	77	83	78	82	82	82	87	80	90	80	77	74	72	83	85	86	75	76	78	79	77	78	74	82	84	93	90	79.9
	Minimum...	62	62	61	58	59	63	69	36	58	59	66	69	69	65	57	55	60	68	65	65	61	55	52	56	60	56	56	59	66	70	74	61	61.9
Holtwood.....	Maximum...	80	69	69	83	79	84	87	80	83	83	86	79	90	79	69	75	72	84	80	88	75	79	79	78	80	78	75	82	84	95	93	80.5	
	Minimum...	63	61	64	58	62	68	69	57	57	63	69	67	73	54	55	60	65	64	65	67	60	54	54	58	55	55	57	60	68	71	69	62.0	
Indiana.....	Maximum...	75	72	69	81	82	86	82	75	82	86	86	87	80	78	78	77	81	82	83	78	77	45	82	86	81	82	81	91	90	91	89	81.5	
	Minimum...	49	58	50	53	52	61	64	58	49	53	61	50	64	45	49	61	65	57	58	59	52	45	46	54	59	53	50	51	60	62	62	55.5	
Mount Pocono.....	Maximum...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum...	46	47	48	45	46	48	52	50	38	44	48	50	50	52	40	36	46	38	40	41	44	39	35	42	43	45	44	46	47	48	50	44.8	
Philadelphia.....	Maximum...	80	72	65	80	80	82	88	82	83	84	87	81	88	84	78	78	71	87	85	86	78	74	77	78	77	75	70	77	82	94	91	80.5	
	Minimum...	66	62	63	61	63	65	68	69	65	66	67	73	70	65	59	62	63	70	68	67	65	60	62	63	60	60	58	60	68	70	75	64.9	
Pittsburgh.....	Maximum...	74	69	74	79	80	84	79	74	80	84	85	84	85	75	74	78	74	82	82	74	74	81	85	81	78	78	76	86	87	88	84	79.5	
	Minimum...	56	59	61	62	60	65	62	60	57	61	68	66	66	59	53	55	65	63	58	66	57	53	51	60	64	62	61	59	63	69	70	61.0	
Reading.....	Maximum...	81	69	65	81	80	79	86	78	81	84	86	83	88	84	77	77	70	84	84	86	77	76	79	81	77	77	73	83	84	94	92	80.5	
	Minimum...	60	62	61	56	57	62	67	63	57	59	65	72	69	62	56	61	68	64	65	60	53	54	57	61	56	57	55	66	70	74	61.5		
Scranton.....	Maximum...	77	65	68	77	78	75	82	76	79	83	85	83	84	74	74	74	71	79	82	82	72	74	77	81	78	80	78	83	87	90	84	78.8	
	Minimum...	56	61	60	55	62	61	65	57	51	53	64	67	62	58	54	49	56	65	62	58	56	47	47	51	59	54	53	52	65	65	66	57.1	
Somerset.....	Maximum...	75	70	65	78	76	80	72	71	78	82	84	76	84	78	72	76	74	76	80	81	75	80	70	75	74	73	83	86	85	84	77.2		
	Minimum...	45	60	60	60	55	54	60	55	48	62	52	62	62	60	42	54	55	64	55	56	42	50	60	50	55	50	47	42	58	60	62	54.4	
State College.....	Maximum...	74	68	65	76	75	72	80	71	76	80	83	80	80	76	72	74	70	77	80	82	70	71	74	78	75	74	74	82	83	87	83	73.0	
	Minimum...	50	56	57	48	51	62	63	57	51	50	63	64	61	60	48	47	56	63	58	58	52	41	43	49	52	48	47	50	55	67	67	54.6	
Towanda.....	Maximum...	75	66	71	77	80	74	81	75	80	83	87	81	83	71	73	76	79	81	84	71	73	78	80	80	80	80	87	92	94	84	78.9		
	Minimum...	50	59	59	48	47	58	65	56	46	49	62	66	62	57	47	49	55	65	56	56	43	44	44	58	46	46	53	76	58	65	54.7		
Uniontown.....	Maximum...	77	80	73	77	80	83	79	74	77	84	85	80	83	81	71	75	78	76	79	84	76	73	79	81	81	80	85	85	86	89	85	79.7	
	Minimum...	50	62	63	54	63	64	66	59	53	57	70	62	68	66	49	51	66	68	61	59	48	57	56	60	60	56	61	60	68	69	60	61.0	
Warren.....	Maximum...	78	65	78	81	82	85	86	73	84	83	86	88	74	77	75	75	72	84	81	74	78	81	85	80	82	80	81	88	92	90	81.0		
	Minimum...	48	58	60	48	50	58	64	53	47	51	58	65	68	59	54	42	56	63	55	62	46	42	45	48	50	58	50	51	50	56	65	54.2	
Wellsboro.....	Maximum...	73	65	74	77	77	70	80	81	71	79	81	85	85	74	71	68	69	75	83	75	68	72	77	83	76	80	76	85	88	89	85	77.8	
	Minimum...	44	56	57	40	46	52	61	70	78	77	47	55	63	55	33	43	52	61	50	56	45	37	47	43	48	43	42	45	45	53	50	40.3	
Williamsport.....	Maximum...	80	78	72	82	79	76	78	79	83	85	87	86	86	78	78	77	83	83	86	75	77	79	83	79	80	79	82	89	90	93	87.5		
	Minimum...	54	59	60	53	52	64	66	60	52	53	63	67	65	59	50	49	60	65	60	59	60	45	48	50	57	50	51	55	54	58	64	56.8	

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

VOL. XXVI PHILADELPHIA, PA., SEPTEMBER, 1921. No. 9.

GENERAL SUMMARY.

The month was an exceptionally warm one, the average temperature for the State being slightly higher than that for August of this year and higher than that for any preceding September from the time of the beginning of the State Weather Service in 1888. The amounts of rainfall during the month were large in all sections except that east of the mountains. However, there was not enough rain to bring up the supply of water in wells and streams to a desirable stage except in the most favorable localities, yet by the middle of the month the soil had been so replenished with moisture as to put much vegetation in good growing order. But potatoes, pastures, late meadows and much of the corn had suffered too much from drought earlier in the season to make anything like complete recovery.

Corn cutting was under way in the second week of September, and by the close of the month most corn was in the shock or silo. Corn ripened with unusual rapidity during the month and no fears were expressed as to injury from frost except in the case of late corn intended for canning. Preparations for sowing wheat were made rather early, except where the ground had been excessively dry. By the close of the third week the soil was in good condition for seeding, which was then being rapidly carried on.

TEMPERATURE.

The average temperature for the State, as determined from the records of 77 stations was 68.9°, which is 5.1° above normal. Mean temperatures ranged from 72.8° at Philadelphia to 64.0° at Montrose. The highest temperature was 98° on the 2d at Catawissa, Gettysburg, Lebanon, and Lykens; the lowest was 31° at Bradys Bend on the 24th. There was no mention of injury by frost during the month in any of the reports received from either cooperative observers or crop correspondents. Temperatures were above normal on almost every day of the month, the greatest excess prevailing on the 2d and 3d and from the 28th to 30th. The lowest temperatures occurred during the third decade, mostly about the 24th to 26th.

PRECIPITATION.

The average precipitation for the State, as determined from the records of 129 stations, was 4.69 inches, which is 1.35 inches above normal. The total rainfall at 40 stations showed an excess as compared with the normal, while only 17 stations had a deficiency. The totals ranged from 11.48 inches at Clearfield to 1.47 inches at George School. The greatest 24-hour rainfall was 4.51 inches at Arendtsville on the 5th. Most of this fell within an hour and a half. There were seven instances of rainfall exceeding 2.50 inches within 24 hours. At Bradford, 4.00 inches of rain fell on the 17th with much damage resulting from inundation along the river, which rose to the highest stage known in 30 years.

There was a destructive local storm, somewhat resembling a tornado, in the vicinity of Northumberland on the 2d. Buildings were damaged by both wind and lightning, and a man was killed by lightning while walking in the field. A heavy fall of hail accompanied this storm. High winds caused minor damage in many parts of the State on the 30th, mostly by bringing down trees and wires.

G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.		
				8 a. m.	8 p. m.		Average.	* Highest.	Direction.
Erie.....	239.3	374.3	64	78	72	9,189	12.8	54	sw.
Harrisburg.....	231.1	373.5	62	76	65	3,567	5.0	32	sw.
Philadelphia.....	215.2	373.5	58	79	77	5,845	8.1	38	s.
Pittsburgh.....	194.5	374.0	52	81	71	6,428	8.9	49	nw.
Reading.....	237.0	374.0	64	77	69	2,351	3.3	28	nw.
Seranton.....	.....	.....	.....	78	67	4,194	5.8	36	sw.

* For any five-minute period.

COMPARATIVE DATA FOR SEPTEMBER.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	59.6	.....	.....	4.84	.....	.....	.....	.....	.....
1889.....	61.9	.....	.....	5.05	.....	.....	.....	.....	.....
1890.....	62.2	91	25	4.57	8.54	2.05	10	9	11
1891.....	66.6	94	32	2.39	5.00	1.05	17	8	5
1892.....	62.4	90	29	2.81	4.85	1.18	16	7	7
1893.....	61.2	90	26	2.67	5.59	0.72	9	12	9
1894.....	66.6	95	24	6.30	12.36	2.82	10	10	10
1895.....	67.8	100	24	1.71	5.41	0.37	16	9	5
1896.....	63.6	98	26	4.82	8.57	1.73	13	8	9
1897.....	63.8	100	24	2.18	4.21	0.25	18	7	5
1898.....	66.0	100	25	1.70	3.95	0.38	16	8	6
1899.....	61.8	93	23	4.70	9.31	2.03	12	9	9
1900.....	68.4	100	27	1.77	6.90	0.48	13	10	7
1901.....	63.6	95	29	3.39	6.61	1.64	14	7	9
1902.....	62.7	99	28	4.66	11.95	1.50	12	8	10
1903.....	63.2	94	27	2.09	3.88	0.91	17	8	5
1904.....	63.7	95	21	3.37	7.40	0.82	13	10	7
1905.....	64.0	95	27	3.41	7.30	1.70	15	9	6
1906.....	67.0	99	30	2.46	6.57	0.36	15	9	6
1907.....	64.8	95	29	6.37	11.86	2.18	8	10	12
1908.....	65.6	99	26	1.60	4.06	0.51	17	9	4
1909.....	62.8	96	26	2.27	4.90	0.64	15	9	6
1910.....	65.5	95	32	4.49	8.45	2.26	13	8	9
1911.....	64.9	92	26	5.29	10.18	1.85	13	9	8
1912.....	65.5	95	25	5.57	11.43	2.47	12	7	11
1913.....	62.4	97	24	3.28	8.43	1.24	13	7	10
1914.....	61.5	98	21	0.99	2.67	0.03	18	7	5
1915.....	66.5	96	25	2.56	6.96	0.45	16	9	5
1916.....	62.5	98	23	3.77	8.18	0.91	17	8	5
1917.....	59.0	91	25	2.31	6.34	0.00	16	9	5
1918.....	58.7	88	28	3.97	7.52	1.82	12	8	10
1919.....	64.4	96	28	2.07	4.09	0.46	16	8	6
1920.....	64.5	91	24	3.99	9.40	0.97	16	8	6
1921.....	68.9	98	31	4.68	11.48	1.47	13	9	8

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	1.6	2.9	24	1.3	12	18
Phillipsburg.....	Delaware.....	0.5	1.5	23	0.2	5	22
Mauch Chunk.....	Lehigh.....	4.6	5.1	22	4.5	1	15
Wilkes-Barre.....	Susquehanna.....	2.5	3.0	25	2.1	2	20
Williamsport.....	Susquehanna.....	2.2	8.8	23	0.5	1	20
Harrisburg.....	Susquehanna.....	3.7	5.4	24	3.2	1	17
Freeport.....	Allegheny.....	4.5	10.4	22	1.9	3	22
West Newton.....	Youghiogheny.....	2.8	7.3	22	1.5	2	20
Greensboro.....	Monongahela.....	.....	.....	.....	.....	.....	.....
Pittsburgh.....	Ohio.....	6.3	10.5	22	4.3	25	22
Beaver Dam.....	Ohio.....	8.8	14.2	23	7.1	4	30

Climatological Data for September, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 0.1 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	34	68.1	+3.4	90	1	46	24	31	4.35	+1.58	0.95	0	18	15	8	7	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	37	69.5	+3.3	93	3	38	27	41	5.12	+1.70	1.31	0	8	9	13	3	sw.	Prof. Chas H. Rominger
Bustleton.....	Philadelphia.....	125	2	70.9	.....	92	2	50	21†	31	2.34	.....	0.92	0	8	14	6	10	s.	Experiment Station.
Carlisle.....	Cumberland.....	467	54	71.0	+6.3	96	1	48	24†	32	3.56	-0.12	1.12	0	12	14	7	9	se.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	24	70.0	+6.5	98	2	43	24	43	3.06	-0.36	1.34	0	8	20	4	6	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	25	66.9	+4.9	91	1	45	24	32	4.73	+1.74	2.36	0	13	17	7	6	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	21	70.2	+4.3	95	2	47	24†	33	8.48	+5.74	2.51	0	13	16	7	7	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	11	70.0	+7.6	94	1	41	26	40	11.48	+8.46	4.30	0	15	15	11	4	sw.	E. W. Hess.
Coatesville.....	Chester.....	380	33	71.2	+5.1	97	2	47	24†	35	2.52	-1.46	0.68	0	8	10	11	9	s.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	11	69.4	.....	95	2	46	24	32	2.80	.....	1.17	0	12	18	5	7	s.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	33	65.0	+3.6	88	2	42	13†	33	7.29	+3.87	1.31	0	10	11	11	8	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	20	70.2	+4.7	93	2	49	24†	27	1.63	-1.84	0.80	0	6	12	11	7	s.	E. K. Hershey.
Everett.....	Bedford.....	1,080	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,873	6	65.1	.....	91	2	44	26	28	3.52	.....	1.31	0	14	13	8	9	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	14	69.9	+5.0	94	2	45	27	36	1.47	-1.51	0.74	0	9	12	10	8	se.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	47	71.9	+6.9	93	2	48	26	37	5.69	+2.36	1.34	0	13	12	11	7	sw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	940	17	66.2	+4.4	93	2	39	24†	40	4.36	-0.12	0.84	0	12	19	4	7	nw.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	28	69.3	+3.8	95	3	45	28†	37	2.52	-1.73	0.60	0	7	15	9	6	w.	State Sanatorium.
Hanover.....	York.....	600	17	72.0 ^b	+4.8	96	2	49 ^b	26	28 ^b	3.45	+0.60	0.98	0	14	15	8	7	s.	Mrs. Mabel C. Woleott.
Harrisburg.....	Dauphin.....	361	51	70.8	+4.8	94	1	53	24	26	2.73	-0.61	1.17	0	12	8	14	8	w.	U. S. Weather Bureau.
Huntingdon.....	Huntingdon.....	650	33	69.4	+5.1	93	1	43	26	35	7.49	+4.10	1.81	0	17	13	10	7	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	1	70.1 ^a	.....	93 ^a	4	45 ^a	26	38 ^a	3.75	.....	1.11	0	9	19	7	4	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	49	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mereer.
Lancaster.....	Lancaster.....	255	33	70.2	+5.7	97	2	45	24	37	1.91	-1.45	0.58	0	10	18	6	6	se.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	23	.....	.....	94 ^s	2	.....	.....	.....	3.65	+0.60	0.75	0	9	.....	.....	.....	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	80	71.0	+5.8	98	2	45	26	34	5.20	+2.01	1.83	0	12	12	14	4	s.	S. B. Benzing.
Lewisburg.....	Union.....	450	46	69.4	+7.4	95	2	45	24	36	3.75	+0.23	0.84	0	9	14	8	8	sw.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	33	69.0	+4.3	94	1†	43	26	37	4.45	+0.88	1.55	0	11	5	16	9	w.	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	6	68.6	.....	98	2	41	24†	41	2.95	.....	0.59	0	15	17	6	7	sw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	1	73.1	.....	95	3	52	30	36	2.94	.....	1.19	0	8	21	5	4	sw.	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	31	68.1	+4.1	96	2	41	27	39	5.06	+2.26	2.15	0	11	10	14	6	w.	R. K. Wintermute.
Millintown.....	Juniata.....	445	17	69.8	+6.0	96	1	47	26	36	3.09	-0.72	0.87	0	11	13	2	15	w.	Wellington Smith.
Millford.....	Pike.....	500	18	64.0	+2.6	91	2	36	27	40	2.30	-1.35	0.90	0	6	17	12	1	w.	J. H. Van Etten.
Montrose.....	Susquehanna.....	1,658	18	64.4	+4.3	96	2	39	26	35	4.00	+0.19	1.00	0	10	21	4	5	s.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muney Valley.....	Sullivan.....	1,045	9	65.8	.....	92	2	40	26	35	5.43	.....	1.28	0	16	12	11	7	.....	A. H. Boatman.
Narberth.....	Montgomery.....	300	2	70.6	.....	94	2	49	27	30	3.24	.....	0.91	0	10	9	9	12	e.	Charles Decker.
Neshaminy Falls†.....	Bucks.....	60	32	70.1	.....	95	2	46	27	32	1.53	.....	1.11	0	6	20	0	10	s.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	4	68.0	.....	96	2	43	27	34	3.87	.....	1.96	0	9	12	14	4	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	50	72.8	+5.4	92	3	58	27	26	2.21	-1.17	0.99	0	8	9	11	10	s.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	5	72.6	.....	92	2†	55	27	27	1.71	.....	0.90	0	7	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	North Springfield Water Co.
Quakertown.....	Bucks.....	496	36	68.4	+4.8	96	2	42	27	39	3.32	-0.37	0.83	0	9	11	11	8	sw.	John E. Benner.
Reading.....	Berks.....	325	51	71.3	+5.0	95	2	52	27	29	3.70	+0.05	1.68	0	9	13	8	9	se.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	10	72.0	.....	96	2	50	26	32	1.81	.....	0.55	0	8	14	11	5	w.	S. A. Clarke.
Seranton.....	Lackawanna.....	805	26	68.1	+5.9	90	1	45	27	31	4.38	+1.52	1.56	0	9	10	13	7	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	31	69.2 ^a	+4.8	93 ^a	1	41 ^a	23†	41 ^a	3.92	+0.21	1.56	0	11	10	14	6	nw	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	25	72.2	.....	92	3	52	24	27	2.25	-1.08	1.07	0	6	16	6	8	se.	W. S. Guiles.
State College.....	Center.....	1,217	36	66.4	+4.0	89	1	44	24	30	5.39	+2.34	1.59	0	15	7	18	5	w.	Prof. Wm. Frear.
Stroudsburg.....	Monroe.....	500	9	67.6 ^a	.....	95 ^a	2	42 ^a	27	45 ^a	2.41	.....	0.61	0	9	25	4	1	.....	H. Q. Snyder.
Towanda.....	Bradford.....	754	26	67.0	+5.0	95	2	40	27	37	4.26	+1.26	1.15	0	12	16	6	8	sw.	Hiram E. Bull. C. E.
Wellsboro.....	Tioga.....	1,419	55	63.7	+4.0	89	1	38	27	38	5.13	+2.06	1.04	0	9	21	2	7	sw.	George W. Hill.
West Chester.....	Chester.....	455	87	70.4	+5.1	94	2	50	26	28	3.14	-0.79	1.05	0	9	16	8	6	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	34	70.1	+6.2	93	2†	45	27	35	3.27	0.0	0.85	0	9	15	7	8	e.	Jacob April.
York.....	York.....	400	33	69.6	+4.0	94	1†	44	14†	41	2.42	-0.93	1.20	0	10	16	7	7	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam†.....	Beaver.....	700	28	71.3	.....	92	10	43	26	39	7.28	+4.63	1.50	0	17	7	10	13	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	6	65.8	.....	90	1†	38	27	40	9.38	.....	4.00	0	12	9	10	11	w.	City Engineer.
Bradys Bend.....	Armstrong.....	930	3	66.4	.....	92	1	31	24	51	6.59	.....	1.37	0	14	10	11	9	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	30	65.3	.....	89 ^b	2	38 ^b	24†	44 ^b	7.96	+4.65	2.40	0	13	8	8	14	.....	John Fawcett.
Claysville.....	Washington.....	1,150	17	70.6	+5.4	91	2	40	26	35	6.88	+3.96	1.85	0	14	13	3	14	s.	J. L. Melvin.
Corry.....	Erie.....	1,400	9	66.2	.....	90	1	38	27	41	4.38	.....	1.05	0	13	15	11	4	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	24	69.1	+3.7	90	1†	40	25	38	5.60	+2.78	1.30	0	13	12	12	6	sw.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	3	65.2	.....	86</														

Daily Precipitation for September, 1921.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown	Lehigh							.30					.30					.10				.50	2.80				.30					4.30	
Altoona	Juniata		.23	.33	.26	.48	.07	.01		.11	.03	.45	.17					.26	.43		.02	.95	.22			.14		.02		.17		4.35	
Ansonia	N. Br. Susq.			T.			.68	.21			.06	.35	.09					.11	2.03			.07	1.08			.53		T.			.17	5.21	
Arendtsville	Potomac			.13		4.51	.15	.40				.44	.77					.32				.99	.04			.25		.04				8.04	
Austin	W. Br. Susq.																																
Bellefonte	do				.08	.10						1.90	.40					.90	.85			1.32								.33		5.88	
Bethlehem	Lehigh		.30					.70					.82					.42				1.14	1.31				.41		.02			5.12	
Bloersville	Lower Susq.		.30			.70		.20				.62						.55				1.33			T.	T.	.20			.20		4.10	
Bustleton	Lower Del.							.04				.11	.14					.28				.92	.19			.03					.63	2.34	
Carlisle	Lower Susq.		.12	.11	T.	.22	.34	.28			T.	.55	.30		T.			.23				.28	.84			.19		.02		.08		3.56	
Catawissa	N. Br. Susq.		.02				.21					.40						.54			1.34					.25		T.	.03		.27	3.06	
Center Hall	Susquehanna		T.	.01	.01	.16	.18			.04	.16	.21	.15					2.36			.12	.89			.24					.20		4.73	
Chambersburg	Potomac			.17	.07	1.55	.25	.60				.48	2.51					.88			T.	.77	.79			.30		.03		.08		8.48	
Clearfield	W. Br. Susq.		.03	.20	T.						.13	4.30	.65					2.70	.08			.13	2.70	.02		.25		.05	.05	.02	.17	11.48	
Coatesville	Lower Del.							.18					.15	.68				.39				.48	.26			.13		T.		.25		2.52	
Colebrook	Lower Susq.		.07	T.	T.		T.	.19	.01			.37	.18					.43	.01		T.	1.17	.03			.20	.01	T.	T.		.13	2.80	
Cresson	Juniata		.04	.52	.10		.50	.05			.55	T.	.50					.60				.70	.65			.23				.02		4.69	
Doylestown	Lower Del.						.06					.05	1.00	1.00				.15				.81	.18			.29				.02		2.15	
Driftwood	W. Br. Susq.			.01	.02		.05											1.00				1.80				.03					.02	4.99	
Emporium	W. Br. Susq.		T.	.10	T.		1.24	.16			1.31	.80	.60					.90				1.29				.40		T.			.49	7.29	
Ephrata	Lower Susq.			T.			.18					.03	T.					.40			T.	.80				.04		T.		.18		1.63	
Everett	Juniata											T.						.18															
Freeland	Lehigh			.02	.10		.06	.20				T.	.12	.48				.18	.10			.23	1.31				.26		.03		.02	3.52	
Forest City	N. Br. Susq.		.16	.29		.53					.04	.38						.33	.10			.64				.54				.22		3.94	
George School	Lower Del.							.03				.03	.15					.14	.02			.74	.10			.01				.25		1.47	
Gettysburg	Potomac			.15	.05	.83	.22	.84				.27	.63					.31				.81	1.34			.08		.10		.06		5.69	
Girardville	Schuylkill					.02						.20	.26					.80	.10			1.71				.64		.02		.42		4.20	
Gordon	Lower Susq.			.08			.14	.02				.34	.42					.84	.18			.78	.60			.64			.02	.30		4.36	
Gouldsboro	Lehigh				.26		.12	.16					.96	.11					.26	.12			.62	1.04			.18				.02		2.83
Graterford	Schuylkill						.81					.16						.32				.52				.12				.02		1.95	
Hamburg	Schuylkill		.30				.29					.50						.25				.13	.60			.45						2.52	
Hanover	Lower Susq.			.04		.08	.66	.12				.15	.33					.14	.08			.31	.98			.21		.08	.05	.22		3.45	
Harrisburg	do		.01	.01	T.	.15	.20				.01	.61	.03					.40	.01		T.	1.17				.10				.03		2.73	
Hawley	Upper Del.				T.								.25					.04					1.20				T.					1.75	
Holtwood	Lower Susq.			T.		T.	.33					.17	.43					.04	.04			.16	.60			.09		T.		.12		1.98	
Huntingdon	Juniata		.29	.30	.09	1.24	.24	.71			.25	.56	1.08					.16	.15			.14	1.81	.07		.18		.02		.20		7.49	
Jersey Shore	W. Br. Susq.		T.	.02		.08	.22					.59						.63				1.11	.44			.14				.52		3.75	
Lancaster	Lower Susq.						.19					.12	.09					.32	.03			.38	.58			.08		.06		.06		1.91	
Lansford	Lehigh					.01	.99					.62	.06					.05	.42			.42	1.10				.34		.01			4.02	
Lawrenceville	N. Br. Susq.		.15	.60		.75						.40						.50	.20			*	.75							.30		3.65	
Lebanon	Lower Susq.					.03	.08					.23	.11					1.48			.01	1.83	.89			.28	.10	.05	T.	.11		5.20	
Lewisburg	W. Br. Susq.		.08			.05	.55	.46				.46						.74			T.	.47	.84			.38				.18		3.75	
Lloyd	W. Br. Susq.					1.34						1.21						.73				1.42	.04			.21				.31		5.26	
Lock Haven	W. Br. Susq.		.36	.03		.07	.58					.49						.72			.01	1.55	.07			.36				.21		4.45	
Lykens	Susquehanna		.02		.04	.02	.03	.01				.26	.13					.59	.13	T.		.38	.51			.15	.30	T.	.03	.25		2.95	
Marcus Hook	Lower Del.					.10	.02					.10	1.19					.18				1.01				.02				.32		2.94	
Mauch Chunk	Lehigh				.01	.20	.29					.15						.38				1.20	2.15			.38			.08	.08		5.06	
Mifflintown	Juniata		T.	.04		.08	.15	.01				.85	.09					.87	.14			.35	.43							.08		3.09	
Mifflord	Upper Del.					.35	.01					.40	T.					.30				.90				.10			T.	.25		2.30	
Montrose	N. Br. Susq.		.18			1.00						.40		.10				.40	.35			.63	.39			.30				.25		4.00	
Mount Pocono	Upper Del.																																
Mount Union	Juniata		.13	.60		1.16	.40			.05	.25	.42						.35	.16		T.	1.20				.15	T.			.25	.10		5.22
Muncy Valley	W. Br. Susq.		.05	.16	.09	.02	.95					.61	.03	.09		.03		.65	.05			1.28	.57			.44		.04		.37		5.43	
Narberth	Lower Del.		.35					.07				.06	.58					.33	T.			.91	.26			.13	.06	T.		.49		3.24	
Neshaminy	Lower Del.			.02								T.	.15					.10	.15			.65	.46									1.53	
Palmerston	Lehigh		.03	.03	.01	T.	.88					.20						.30				1.96				.33				.13		3.87	

Daily Precipitation for September, 1921. - Continued from page 35.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Creekside	Allegheny																																
Davis Isl. Dam	Ohio	.17	.06	.12	.13	.40	.04	T			.43	.43	.15						T	.32			1.65	.32			.18	.13	.03	.05		.18	4.79
Derry	Conemaugh			.38	1.12	.66	.23				.56	.05	.10						.16	.25			15	1.30			.30				.34		5.60
Ebensburg	Conemaugh			1.31		.31		.03			.71		.65						.35	.60		.03	1.64	.12			.44			.09	.20		6.48
Edinboro	Allegheny			T	.12	.12	.05					.42	.27	.22					1.35	.04			.04	1.01			.55			.03	.46		4.68
Elk Lick	Youghiogheny			T	.17	.76	.18	.65	.04		.31	.03	.32	.17			.16			.01			.34	1.60	.07			.85		.10		.27	6.03
Falls Creek	Allegheny																																
Franklin	Allegheny			.07		.54	.22					.03	1.02						.80	.93		.04	.28	.40				.46			.12		4.87
Freeport	Allegheny			.13	.22	.41	.86	.02	.06			.04	.37	.24					.30	.49			1.70	.52			.12	.25		.11	T	.18	5.75
Greensburg	Youghiogheny			.49	.63	.31	.60	.08			.19	.52	.12						.04	.32			28	1.05	.01			.33		.02		.21	5.20
Greenville	Beaver			.08								T	.35	T				1.14			.84					.78							3.53
Grove City	Beaver	.18	.21	.01	.24	.26	.63				.39	1.23	.37						.91	.03		.18	.73				.18			T		.37	5.92
Harris Isl. Dam	Ohio	.06	T	.17	.41	.21	.05	.01				.40	.26	.05					.03	.18			1.95	.33			.06	.15	.06	.03		.20	4.61
Indiana	Conemaugh			.05	1.38						.20	.32	.51						.13	.27			10	2.05			.30				.27		5.71
Irwin	Youghiogheny			.11	.67	.60	.08	.11			T	.20	.15	.01					.16	.25							.34		.36			.23	2.96
Johustown	Conemaugh			.15	.70	.14	.27	.13			.37	.16	.48				T		1.00	.50							.23		.05	.02		.16	5.78
Ketner	Allegheny				.08		2.14	.27			1.53	.55	.48						.98				1.67				.65		.04	.03		.45	8.87
Linesville	Beaver			.15			.10	.03				1.61						T		1.93	.41		.06	.33	.43		.25	.39		.01		.04	5.74
Lock No. 4	Monongahela	.57	.10		.01	.66		.63			T	.15	.05						.42	.76			1.12	.33			.14	.52	.08	.01		.04	5.17
Lycippus	Conemaugh			.05	1.10	.72	1.20	.98	.07		.50	.78	.40						.42	.27			42	1.01			.88		T	T		.20	9.00
New Castle	Beaver			.09	.26	.44	.63		T	.10		.38	.02					.58	.24				.36	.41				.02		.15	.24	.02	4.00
Newell	Monongahela	1.21	1.22	.04	.10	.05	.20	.13	T	.04		.41							14	.21			29	1.43			.65	.09	.01			.14	6.36
North Shenango	Beaver					.42	.18					1.00							1.10	.35		.28	.65	.86			.35				*	5.19	
Parkers Landing	Allegheny			.10	.02	.05	.22	.03			.01	.95	.22						.70	.69		T	.70	.76			.05	.10		T	T	.15	5.05
Pennline	Beaver			.20		1.10	.09					1.25							1.74	.29		.02	.31	.09			.24	.25		.02		.20	5.80
Pittsburgh	Ohio	T	.25	.36	.11	.02	.09			.79		.42						T	.09	.10			.40	1.86			.20			.10	.02	.26	5.07
Ridgway	Allegheny			.04			.25					.08	.41						1.23				1.76				.64				.50		4.91
Saltsburg	Conemaugh	.25		.35	2.33	1.19	.03	.06			.37	1.56	.12						.50			.154	.73				.14	.22	.02	.11	T		9.52
Sharon	Beaver	T	.14	.05	T	.03	.16				.37	.85	.27						.72	.22			.27	.29			.25	T				.31	3.25
Somerset	Youghiogheny			1.27	.56	.22	.18			2.26	.31								.05				57	1.58			.60	.28	.26			.31	8.45
Springdale	Allegheny	.31		.12	.73	.30	.03	.15			.05	.35	.26							.35			1.20	.26			.10	.32	.02	.05		.40	4.60
Summit	Beaver			.22								.35							1.73	.40			.15									.35	3.25
Tionesta	Allegheny	.11	.09	.05	T	.63	.20					.19							1.62				45	1.80			.62					.38	6.14
Turnerville	Beaver		.10		.10	.80			.50								.20	.60				.51				.30	.20					.34	3.41
Uniontown	Monongahela		T	.03	T	.89	.52			.28	.17	.12								.38			50	1.65	.03			.82		.14		.22	5.75
Vandergrift	Conemaugh		.18	.85		.86	.10		.02	.10		.32							.22	.15			.08	2.83			.18		.08			.25	6.22
Warren	Allegheny		1.15	.68		.86				.30	.10								1.35	.15			.64				1.48			.04		.48	7.23
Washington	Ohio		.17	.14	2.09		.24		.27		.57								.38	.17			58	1.85			.48		.25			.31	7.50
Waynesburg	Monongahela		.58				.85				.50											1.00	2.00				1.20					.18	7.01
Westford	Beaver		.35		.12	1.05	.03				1.53								1.15	.62			.35				.24		.36				5.70
West Newton	Youghiogheny	.42		.75	T	.62		.32			.79	.16	T							.17				1.09	.48			.12	.36	.04		T	5.32
Lake Drainage.																																	
Erie***	Lake Erie			.12	.02	T	.21				.06	.30	.10		T			1.50	T			.06	.22					.25			.12	.28	3.24
West Bingham	Genesee																																

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

Daily Temperatures for September, 1921.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.		
Altoona.....	Maximum...	90	89	79	83	73	80	79	77	81	82	83	81	79	77	83	73	77	77	73	61	78	77	75	77	73	70	67	79	81	70	...	77.5	
	Minimum.....	68	68	67	69	65	68	51	55	58	59	66	67	56	50	56	57	62	64	52	53	60	55	60	46	59	52	48	59	54	56	...	58.7	
Brookville.....	Maximum.....	88	89	82	85	85	75	82	81	85	85	84	.....	84	79	82	75	81	71	.....	74	77	79	75	82	68	71	70	77	81	70	...	79.2
	Minimum.....	62	62	62	65	65	54	43	44	54	58	60	.....	42	44	48	54	61	52	.....	47	58	54	41	38	44	38	42	55	51	41	...	51.4
Catawissa.....	Maximum.....	95	98	97	92	72	86	90	92	87	88	84	86	86	80	82	87	83	73	84	81	68	71	84	84	82	72	78	71	86	86	78	...	83.4
	Minimum.....	63	65	66	67	63	68	56	49	52	58	65	66	54	49	52	56	60	59	52	49	60	57	52	43	50	44	44	60	56	63	...	56.6	
Chambersburg.....	Maximum.....	93	95	88	89	81	85	82	83	81	85	87	86	84	82	87	78	80	80	76	71	78	81	81	78	77	75	69	82	86	77	...	81.9	
	Minimum.....	60	65	65	64	65	68	60	55	60	58	61	65	56	55	56	63	63	68	50	53	60	56	56	47	58	47	50	55	56	57	...	58.4	
Emporium.....	Maximum.....	86	88	83	82	76	72	78	78	80	81	78	81	75	72	80	72	78	75	69	65	74	72	74	74	70	66	69	73	79	70	...	75.7	
	Minimum.....	63	66	65	65	65	61	46	47	55	58	60	61	42	48	52	58	61	56	45	47	60	52	50	45	52	42	43	58	57	47	...	54.2	
Erie.....	Maximum.....	84	84	80	81	81	72	79	77	82	82	77	76	73	77	74	70	85	72	66	67	81	82	69	81	69	65	74	72	82	72	...	76.2	
	Minimum.....	69	74	70	67	71	60	59	63	66	66	67	64	57	57	35	60	65	59	57	58	63	62	58	63	61	54	51	62	67	54	...	62.0	
Grove City.....	Maximum.....	90	88	84	78	84	82	79	80	86	83	81	82	78	77	80	75	83	77	72	68	78	78	75	79	74	70	73	72	81	75	...	78.7	
	Minimum.....	63	65	66	67	70	57	49	53	62	63	61	64	49	51	54	56	64	55	51	56	61	57	55	44	65	40	47	60	57	55	...	57.2	
Harrisburg.....	Maximum.....	94	92	86	88	72	82	85	83	81	84	84	80	80	79	85	75	80	76	72	68	73	80	79	76	76	72	64	83	86	76	...	79.3	
	Minimum.....	69	74	72	70	62	68	67	59	63	64	65	67	65	58	60	66	64	63	56	55	61	61	62	53	61	54	64	62	60	56	...	62.4	
Holtwood.....	Maximum.....	93	96	92	86	86	84	88	89	84	87	86	80	82	80	85	77	75	83	78	70	73	84	83	80	81	78	77	87	88	83	...	83.2	
	Minimum.....	69	70	73	72	65	64	64	59	64	66	65	65	57	60	63	63	60	57	56	60	63	57	53	58	52	57	64	66	50	...	61.5		
Indiana.....	Maximum.....	90	89	78	85	87	81	86	83	85	86	85	85	83	85	85	80	84	80	77	71	81	79	79	84	78	71	73	79	80	78	...	81.7	
	Minimum.....	62	66	66	68	67	65	50	53	61	62	63	63	50	53	57	59	54	57	55	55	63	59	54	46	63	43	50	61	54	55	...	57.7	
Mount Pocono.....	Maximum.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	...	.....
	Minimum.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	...	.....
Philadelphia.....	Maximum.....	88	92	92	84	74	81	84	84	84	83	79	72	82	78	78	77	74	83	76	74	72	82	82	77	82	73	68	83	89	87	...	80.5	
	Minimum.....	68	72	75	68	67	68	70	68	68	67	69	68	67	62	63	65	64	66	60	60	62	66	62	61	62	59	58	65	66	61	...	65.2	
Pittsburgh.....	Maximum.....	88	87	80	83	85	77	81	84	85	84	84	81	79	80	81	79	85	72	73	72	80	77	75	81	71	69	76	78	81	72	...	79.3	
	Minimum.....	68	72	71	70	71	63	57	60	68	68	65	65	56	60	61	62	60	61	59	61	64	61	62	53	56	47	56	65	63	52	...	62.2	
Reading.....	Maximum.....	93	95	91	85	75	82	85	84	85	83	84	81	82	80	86	77	72	77	75	69	72	81	80	80	78	73	66	82	88	83	...	80.8	
	Minimum.....	70	72	73	66	64	68	66	60	59	67	66	65	64	56	59	64	64	61	57	56	60	62	61	53	60	53	52	61	62	54	...	61.8	
Scranton.....	Maximum.....	90	88	83	83	83	80	83	83	82	84	76	79	75	75	83	76	72	75	71	71	69	78	77	70	69	69	78	78	85	80	...	78.0	
	Minimum.....	63	67	68	66	63	65	61	52	58	59	67	66	57	50	55	57	60	53	49	61	61	55	46	55	48	45	60	59	54	...	58.0		
Somerset.....	Maximum.....	90	90	75	85	85	87	82	80	80	83	78	80	76	84	82	82	83	80	82	72	75	76	73	78	76	68	72	78	80	72	...	79.5	
	Minimum.....	62	62	65	67	65	66	55	52	60	58	65	60	58	50	58	50	54	58	60	52	60	55	34	42	50	41	58	60	50	52	...	56.5	
State College.....	Maximum.....	89	86	80	81	72	78	78	79	79	82	81	82	77	76	81	74	72	75	72	63	74	75	75	74	70	68	64	72	80	72	...	76.0	
	Minimum.....	68	69	69	65	62	65	54	59	57	59	60	59	54	50	53	57	61	60	50	50	50	57	57	60	44	59	46	46	52	54	...	56.9	
Towanda.....	Maximum.....	92	95	90	84	77	75	82	84	83	86	77	82	75	75	84	76	74	73	70	70	69	80	75	79	70	69	73	76	85	76	...	78.5	
	Minimum.....	57	64	64	64	64	67	53	49	52	56	64	63	52	49	53	54	55	60	51	46	59	57	63	42	52	44	40	58	59	53	...	55.5	
Uniontown.....	Maximum.....	87	87	79	85	84	79	79	82	83	83	84	78	78	84	82	80	87	80	70	79	77	76	76	79	71	66	73	77	82	74	...	79.4	
	Minimum.....	65	68	70	69	70	69	58	64	66	65	65	66	56	53	65	61	66	61	51	56	65	60	60	49	63	45	57	65	54	57	...	61.3	
Warren.....	Maximum.....	91	92	85	84	88	76	85	83	90	88	86	86	80	75	81	76	83	71	75	75	80	80	78	83	71	73	76	70	83	69	...	80.4	
	Minimum.....	63	63	63	63	66	57	50	50	56	59	62	60	48	59	52	54	62	53	47	51	53	55	51	46	54	43	62	56	54	...	55.3		
Wellsboro.....	Maximum.....	89	85	87	81	70	73	80	80	80	84	81	85	73	71	79	79	70	70	66	68	77	74	76	67	70	67	72	80	69	...	75.9		
	Minimum.....	55	60	61	61	60	62	45	43	47	53	60	61	45	43	43	50	56	63	42	44	55	50	50	33	39	38	55	50	51	...	51.5		
Williamsport.....	Maximum.....	91	93	93	89	85	85	86	85	87	85	84	87	82	81	87	80	77	77	76	75	68	81	81	80	74	73	66	83	84	79	...	81.6	
	Minimum.....	65	68	68	67	66	67	55	52	55	59	64	67	55	52	54	59	63	66	55	51	58	57	57	47	56	48	45	60	59	58	...	58.8	

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

VOL. XXVI PHILADELPHIA, PA., OCTOBER, 1921. No. 10.

GENERAL SUMMARY.

October maintained its reputation as being one of the most pleasant months in the year. The temperatures were moderate and seasonable, while the rainfall was below the normal in most parts of the State. The conditions were ideal for field work which generally made good progress. Seeding of the winter grains was finished about the middle of the month, at which time the early sown fields were up from four to six inches and a good even stand. In the southeastern counties the soil was too dry for late feed, and the digging of late potatoes was difficult. Corn husking was begun early in the month, and progressed under ideal conditions. It was not damaged by frost and the quality was generally excellent, while the yield was equal to the best crops on record. The late potato crop was cut short in most districts by lack of moisture, and the yield for the season was estimated by the Bureau of Crop Statistics as being about two-thirds as large as that of last year. Winter apples were gathered and the yield was estimated at about fifteen per cent of last year's crop. Frosts occurred in various portions of the State at about the usual time and little damage resulted as most crops had matured. The usual amount of tender sorts of vegetables were nipped, but such things as celery and cabbages were little harmed. The first general frosts in the northern and western counties occurred on the 13th and 14th, and in the southeastern counties on the 26th and 27th. Light frosts had been observed in all districts earlier than the dates mentioned. As a rule the freezing was not severe enough to kill pasture grass, and considerable feed remained at the end of the month.

TEMPERATURE.

The average temperature for the State, as determined by the records from 79 stations was 52.6°, which is 0.1° above the October normal. The highest monthly mean was 57.9° at Marcus Hook, and the lowest was 47.4° at West Bingham. The highest temperature recorded was 84° at Everett on the 3d, and the lowest was 18° at West Bingham on the 26th and at Stroudsburg on the 27th. The lowest temperatures were recorded in the western counties on the 13th or 14th and elsewhere on the 26th or 27th. The maximum temperatures were recorded on various dates throughout the month.

PRECIPITATION.

The average rainfall for the State, as reported from 130 stations, was 2.16 inches, which is 1.21 inches below the October normal. The greatest monthly amount was 6.55 inches at Summit, in Crawford County, and the least was 0.40 inch at Philadelphia. The drought was severe in nearly all of the southeastern counties, while in the western and northern portions of the State there was only a moderate deficiency in rainfall. No measureable amount of snowfall was reported, except one inch at Erie, but traces occurred in the northern counties and all through the mountain district.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.		
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.
Erie.....	204.8	343.1	60	71	68	11,601	15.6	50	se.
Harrisburg.....	239.0	345.2	69	75	61	4,448	6.0	25	sw.
Philadelphia.....	246.3	345.2	71	76	70	6,312	8.5	30	s.
Pittsburgh.....	218.0	344.1	63	80	66	8,843	11.9	37	sw.
Reading.....	239.0	345.0	69	77	65	2,481	3.3	20	nw.
Scranton.....	.....	.....	.....	84	65	4,884	6.6	31	sw.

* For any five-minute period.

COMPARATIVE DATA FOR OCTOBER.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	46.3	74	19	4.02	9.18	2.04	9	6	16
1889.....	47.3	83	13	3.85	8.61	1.88	8	9	14
1890.....	50.9	81	21	5.87	8.41	4.03	6	8	17
1891.....	50.6	91	15	3.06	4.46	0.84	11	9	11
1892.....	50.8	83	16	0.72	2.93	0.00	13	11	7
1893.....	53.0	91	17	3.26	6.58	1.18	14	8	9
1894.....	53.6	88	24	4.26	7.66	0.65	12	8	11
1895.....	47.3	76	17	1.99	4.63	0.45	17	8	6
1896.....	48.9	86	18	3.19	5.70	0.94	11	8	12
1897.....	54.2	95	16	1.32	5.93	T.	14	8	9
1898.....	53.8	92	20	5.20	8.62	2.36	11	7	13
1899.....	54.6	94	15	1.55	3.81	0.53	13	8	10
1900.....	58.6	95	19	2.74	5.10	0.80	11	9	11
1901.....	52.2	83	20	1.23	3.35	0.23	16	10	5
1902.....	53.1	89	19	4.64	8.12	1.65	12	9	10
1903.....	53.4	91	20	4.64	10.53	2.07	12	8	11
1904.....	50.6	91	12	2.87	7.11	1.26	15	8	8
1905.....	53.2	90	16	4.23	7.06	2.18	14	7	10
1906.....	52.0	87	14	4.46	8.39	1.97	7	7	17
1907.....	48.2	87	13	3.16	5.64	1.01	16	8	7
1908.....	54.6	93	19	1.95	5.48	0.08	16	7	8
1909.....	48.4	87	15	2.27	4.60	0.70	13	7	11
1910.....	55.6	91	14	1.91	5.23	0.62	16	8	7
1911.....	52.3	83	18	4.83	9.23	2.59	11	7	13
1912.....	54.2	90	23	2.74	5.27	0.90	15	7	9
1913.....	54.9	88	16	5.44	9.62	3.15	10	6	15
1914.....	56.4	91	11	2.35	4.37	0.89	11	9	11
1915.....	54.2	85	17	2.65	5.33	1.00	15	7	9
1916.....	52.1	92	16	2.25	4.45	0.76	18	7	6
1917.....	47.2	84	12	6.38	9.80	3.33	10	10	11
1918.....	55.5	85	19	3.17	2.20	0.24	15	8	8
1919.....	57.5	92	21	4.77	8.04	2.25	9	10	14
1920.....	57.5	88	22	1.67	4.67	0.50	19	7	5
1921.....	52.6	84	3	2.16	6.55	0.40	17	7	7

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.		Highest stage.		Lowest stage.		Flood stage.	
		Mean.	Highest.	Mean.	Highest.	Mean.	Highest.	Mean.	Highest.
Port Jervis.....	Delaware.....	2.2	3.5	22	1.6	1	18		
Phillipsburg.....	Delaware.....	0.9	1.5	25	0.4	2	22		
Mauch Chunk.....	Lehigh.....	4.4	4.8	4	4.2	16	15		
Wilkes-Barre.....	Susquehanna.....	3.5	4.4	24	2.3	3	20		
Williamsport.....	Susquehanna.....	3.6	3.8	26	3.5	10	17		
Harrisburg.....	Susquehanna.....	4.4	6.8	15	3.5	29	22		
Freeport.....	Allegheny.....	2.4	4.1	6	1.7	29	20		
West Newton.....	Youghiogheny.....	6.1	7.2	6	5.6	10	22		
Greensboro.....	Monongahela.....						30		
Pittsburgh.....	Ohio.....								
Beaver Dam.....	Ohio.....								

Climatological Data for October, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 0.1 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	34	52.3	+0.4	73	2†	31	26	37	1.56	-0.88	0.49	T.	10	19	5	7	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	37	51.4	-4.1	79	2	19	27	50	1.79	-1.44	1.00	0	4	9	20	2	w.	Prof. Chas H. Rominger
Bustleton.....	Philadelphia.....	125	2	54.8	.....	78	11	29	27	39	0.49	.....	0.18	0	4	16	8	7	s.	Experiment Station.
Carlisle.....	Cumberland.....	467	54	54.1	+1.8	78	2†	26	27	41	1.11	-2.21	0.48	0	5	21	3	7	sw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	24	52.5	-1.1	82	2	23	27	42	2.46	-0.61	0.93	0	8	21	1	9	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	25	51.9	+0.5	72	2	27	26	35	1.35	-1.73	0.39	0	6	18	7	6	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	21	53.0	+0.2	77	10	25	27	42	1.21	-1.99	0.51	0	6	17	9	5	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	11	53.9	+2.1	80	15†	24	26	52	1.59	-1.77	0.60	0	8	22	6	3	nw.	E. W. Hess.
Coatesville.....	Chester.....	380	33	53.7	-0.6	83	2	24	27	44	1.05	-2.57	0.35	0	5	15	12	4	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	11	53.0	.....	76	1	29	27	38	1.83	.....	0.60	0	6	21	3	7	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	33	49.0	-1.0	73	18	21	26	43	2.04	-1.25	0.41	0	10	15	7	9	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	20	54.0	-1.1	75	2†	30	26	38	1.57	-1.60	0.51	0	5	20	5	6	s.	E. K. Hershey.
Everett.....	Bedford.....	1,080	23	51.6	-0.5	84	3	23	14†	47	1.55	-1.40	1.20	0	2	21	8	2	n.	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,873	6	50.2	.....	70	2	24	26	26	3.99	.....	0.91	T.	13	17	6	8	sw.	Theo. Reichmann.
George School.....	Bucks.....	190	14	54.0	-0.9	79	2†	23	27	44	0.53	-2.72	0.21	0	7	18	10	3	w.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	47	55.3	+3.1	80	10	28	26	44	0.79	-2.43	0.22	0	5	18	8	5	s.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	17	49.7	-0.3	74	2	20	27	43	2.71	-1.68	0.88	0	7	20	4	7	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	28	53.4	-0.5	80	13	26	25	45	2.36	-1.70	0.96	0	4	21	6	4	nw.	State Sanatorium.
Hanover.....	York.....	600	17	55.6 ^a	-0.5	77	7	31 ^a	26†	35 ^a	0.61	-2.28	0.35	0	3	24	3	4	w.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	51	54.8	+0.4	76	7	33	27	32	1.51	-1.52	0.56	0	6	15	10	6	w.	U. S. Weather Bureau.
Huntingdon.....	Huntingdon.....	650	33	52.8	+0.3	76	2	23	27	44	1.51	-1.49	0.80	0	6	21	3	7	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	1	53.4	.....	78	2	26	27	41	2.22	.....	0.52	0	9	20	5	6	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	49	54.2	-0.4	75	2†	32	26†	36	.....	.....	.....	.....	.....	19	9	3	w.	W. P. Mercer.
Lancaster.....	Lancaster.....	255	33	52.9	-0.5	79	2	22	27	44	1.37	-1.76	0.42	0	5	21	6	4	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	23	50.3	+0.3	74	2†	22	26	44	1.25	-1.58	0.50	0	7	17	5	9	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	80	54.4	+1.2	78	7	28	27	41	1.94	-1.67	0.68	0	5	19	8	4	w.	S. B. Benzing.
Lewisburg.....	Union.....	450	46	53.0	+2.8	78	2	23	27	42	2.13	-1.12	0.75	0	7	17	6	8	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	6	52.4	.....	76	2†	20	26†	42	2.17	.....	0.70	0	8	19	7	5	sw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	1	57.9	.....	83	7	36	26†	36	0.62	.....	0.26	0	4	22	6	3	w.	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	31	52.1	-0.2	78	2	22	27	44	3.23	-0.61	1.18	0	5	17	11	3	w.	R. K. Wintermute.
Midlinton.....	Juniata.....	445	17	54.0	+1.6	79	16	26	27	47	1.38	-1.93	0.60	0	6	21	4	6	nw.	Wellington Smith.
Montrose.....	Susquehanna.....	1,658	18	48.2	-0.8	73	2†	20	26	37	3.64	+0.09	0.97	0	7	21	6	4	s.	Silas Jager.
Mount Pocono.....	Monroe.....	1,720	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	9	50.2	.....	72	2	24	27†	43	3.72	.....	0.97	0	9	18	4	9	.....	A. H. Boatman.
Narberth.....	Montgomery.....	300	2	54.6	.....	77	7	30	27	36	0.75	.....	0.25	0	4	18	7	6	nw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	32	54.0	.....	79	7	25	27	44	1.04	.....	0.61	0	6	19	5	7	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	4	51.2 ^b	.....	74 ^b	7†	24 ^b	27	40 ^b	2.13	.....	0.81	0	8	24	4	3	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	50	57.7	+0.7	78	7	36	26	28	0.40	-2.81	0.13	0	5	14	12	5	nw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	5	57.1	.....	78	2†	36	26	28	0.93	.....	0.44	0	5	.....	.....	.....	.....	Commandant Navy Yard.
Phoenixville.....	Chester.....	100	10	54.0	.....	75	11	22	26†	40	0.83	.....	0.30	0	4	21	10	0	nw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	36	51.6	-0.5	77	2	20	27	46	1.53	-1.88	0.55	0	5	19	7	5	nw.	John E. Benner.
Reading.....	Berks.....	325	51	55.1	+0.4	77	2	32	27	33	1.50	-2.00	0.55	0	6	15	13	3	nw.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	10	55.6	.....	82	2	31	26	36	1.29	.....	0.45	0	5	16	11	4	w.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	26	52.6	+0.4	75	2	28	26	36	2.78	-0.19	0.67	0	10	11	13	7	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	31	52.7	+0.1	75	1†	24	27	41	2.05	-1.51	0.65	0	7	15	10	6	w.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	25	55.4	.....	76	7	32	26†	33	0.47	-3.02	0.20	0	4	20	8	3	nw.	W. S. Gules.
State College.....	Center.....	1,217	36	50.8	-0.2	70	2†	27	26	36	1.41	-1.49	0.58	T.	8	14	13	4	w.	Prof. Wm. Frear.
Stroudsburg.....	Monroe.....	500	9	52.4 ^a	.....	78 ^a	2	18 ^a	27	49 ^a	1.64	.....	1.18	0	3	29	1	1	.....	H. Q. Snyder.
Towanda.....	Bradford.....	754	26	50.6	-0.2	76	2	23	26	45	2.62	-0.44	0.76	0	10	13	4	14	w.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	55	48.8	-0.3	75	1	24	27	46	1.50	-1.64	0.57	T.	6	19	1	11	w.	George W. Hill.
West Chester.....	Chester.....	455	87	54.8	+0.3	80	2	30	26	35	0.69	-3.01	0.25	0	6	24	3	4	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	34	52.8	+0.2	75	2	29	26†	38	2.90	-0.50	1.10	T.	10	16	5	10	se.	Jacob April.
York.....	York.....	400	33	54.4	+0.8	80	10	24	27	43	0.85	-2.08	0.35	0	4	20	6	5	.....	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	28	54.6	.....	78	2	30	14	41	2.43	-0.02	0.95	0	9	16	4	11	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	6	50.0	.....	74	16	27	14†	46	3.00	.....	0.78	T.	14	13	7	11	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	3	48.0	.....	74	2	21	22†	45	2.23	.....	0.65	0	9	19	4	8	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	30	49.0 ^b	.....	75 ^b	3	23 ^b	27	45 ^b	2.52	-0.38	0.90	0	9	.....	.....	.....	.....	John Fawcett.
Claysville.....	Washington.....	1,150	17	53.5	-0.2	77	2†	27	14	47	2.09	-1.08	0.83	0	10	17	6	8	n.	J. L. Melvin.
Corry.....	Erie.....	1,400	9	50.5	.....	73	15	29	26	43	3.28	.....	1.01	T.	15	15	5	11	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	24	52.3	-2.1	79	2	24	13†	50	2.89	-0.32	0.80	0	7	17	9	5	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	3	49.0	.....	72	17	24	14	46	1.94	.....	0.60	0	9	21	4	6	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	4	49.8	.....	74	17†	23	14	46	1									

Daily Precipitation for October, 1921.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Allegheny.																																	
Allentown|||	Lehigh.	.10		.30	.02				.23			.05									1.03	.05										1.78	
Altoona	Juniata.		.49	.11	.06			.06	.02			.05								.31	.14	.16										.16	
Ansonia|||	N. Br. Susq.	.28		.04	.12			.21	.08	.07	T.	.23	.13							.38	.11	.03										.07	
Arendtsville	Potomac.		.39					.15													.15											.15	
Austin	W. Br. Susq.																																
Bellefonte	do.		.33									.40																				.97	
Bethlehem	Lehigh.		.40					.36													1.00											.03	
Bloersville	Lower Susq.		.70					T.											T.	.55											.52		
Bustleton	Lower Del.		.18					.12													.13											.06	
Carlisle	Lower Susq.		.48					.17			T.	.10								T.	.31											.05	
Catawissa	N. Br. Susq.		.39	.03				.65			.22	T.							.04	.08	.39											.12	
Center Hall	Susquehanna.		.39					.18				.36								.27	.03											.12	
Chambersburg	Potomac.		.51	T.				.10			T.	.02								.03	.08											.47	
Clearfield	W. Br. Susq.		.31	T.				.14	.01		.03	.02								.60	.08											.40	
Coatesville	Lower Del.		.21					.31				.10								.35												.08	
Colebrook	Lower Susq.		.60					.51			.12									.02	.49											.09	
Cresson|||	Juniata.		.56	.08	.07			.05			.01								.35	.12	.30											.15	
Doylestown	Lower Del.		.35		.03			.18													.24											T.	
Driftwood	W. Br. Susq.		.24	.05				.01	T.			.34	.05						.05	.30	.22											.26	
Emporium	W. Br. Susq.		.18	.14				.16			.18	.17							.40	.18	.16								.06			.41	
Ephrata	Lower Susq.		.51					.34				.09								.50												.13	
Everett	Juniata.		1.20																T.	1												.35	
Forest City	N. Br. Susq.		.63	.08				.48	.15		.54								.12	.78	.09											.03	
Freeland	Lehigh	.21		.06	.91	.12		.12	.78	.15		.38	.29						.09	.72	.10											.06	
George School	Lower Del.		.21		.03			.10	.01			.05								.10		T.										.03	
Gettysburg	Potomac		.22					.17				.22								T.	.10	T.										.08	
Girardville|||	Schuylkill		1.15	.03				1.05			.30								.05	.28	.79											.11	
Gordon	Lower Susq.		.88		.09			.60				.32	.08							.05	.72											.05	
Gouldsboro|||	Lehigh.	.15		.69				.35				.24	.08							.89	.23	.12										.02	
Graterford	Schuylkill		.18					.15				.03								.06												.80	
Hamburg	Schuylkill		.96					.50			.10																					.06	
Hanover	Lower Susq.		.16					.35												.10												.01	
Harrisburg***	do.		.56					.43			.13								T.	.23	.10											.06	
Hawley|||	Upper Del.			.58	T.			T.	.40		T.									*	.88											.14	
Holtwood|||	Lower Susq.		.08	.02				.23			T.									.39												.36	
Huntingdon	Juniata.		.80	.04				.12			T.									.16	.14	T.										.25	
Jersey Shore	W. Br. Susq.		.51	.07	T.			.27	.03		.52	.08								.36	.28											.10	
Lancaster	Lower Susq.		.34					.36				.11								.42												.14	
Lansford|||	Lehigh	.19		.62	.02		.12	.36				.22								.03	.60	.02										.10	
Lawrenceville	N. Br. Susq.		.15	.05				.15	.15	T.										.50	.20											.05	
Lebanon	Lower Susq.		.55	T.				.46	T.		.11									.08	.47		.68	T.								.14	
Lewisburg	W. Br. Susq.		.75	.02				.36			.37																					.08	
Lloyd	W. Br. Susq.		.36	.42				.46	.29			.24																				.31	
Lock Haven	W. Br. Susq.																																
Lykens	Susquehanna		.68	.01				.70			.12									.03	.55	.07										.01	
Marcus Hook	Lower Del.		.26					.17				.13								.13												.06	
Manch Chunk	Lehigh		.80					.44				.67								1.18												.14	
Mifflintown	Juniata.		.60					.14			.06									.04	.46											.08	
Montrose	N. Br. Susq.		.97		.14			.50				.80								.18	.95											.10	
Mount Pocono	Upper Del.																																
Mount Union	Juniata.		.76	T.				.15				.69	.11							.07	.20											.20	
Muncy Valley	W. Br. Susq.		.97	.27				.62	T.											.24	.68	.05										.09	
Narberth	Lower Del.		.25					.23			T.									.19												.08	
Neshaminy|||	Lower Del.	.61		.03	.12			.15			.03									.19												.10	
Palmerton	Lehigh		.57	.01				.37			.08	.03								.01	.81											.25	
Philadelphia (a)	Lower Del.		.12					.13				.01									.10											.04	
Philadelphia (d)|||	do.	.44		T.	.19				.14			.04									.12											.03	
Phoenixville	Schuylkill		.18					.25												.30												.10	
Pottstown	do.		.21					.35				.04									.80											.05	
Pottsville	do.		.58					.40				.27																					

Daily Precipitation for October, 1921.—Continued from page 39.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Creekside	Allegheny																																
Davis Isl. Dam	Ohio	.19		.09	.01	.31			.18	.03			T.							.08	.33	.08											.47
Derry	Conemaugh		.76	.05	.05				.29										.20		.74												.80
Ebensburg	Conemaugh		.53	.15	.10				.13				.12							.23	.37	.21											.10
Edinboro	Allegheny		.16	.89				.14	1.56	.18	.07	.05	1.10	.12						.02	.23	.23	.08										.28
Elk Lick	Youghiogheny		.61	.14	.22				.05				T.							.21	.40										.12		.08
Falls Creek	Allegheny		.12	.03	.13				.28	.04			.11							.40	.34												.84
Franklin	Allegheny	.26		.05		.17			.40	.16			.03	.18	.17					.07	.22	.14	.02										.42
Freeport	Allegheny	.25		.10		.11			.17	.20			.05	T.						.10	.41	T.											.69
Greensburg	Youghiogheny		.75	.12	.23				.36				T.	.02					.21	T.	.59	.05											.87
Greenville	Beaver		1.00	.14				.64	.21		.10	.29	.17						.04	.20	.20										.36		
Grove City	Beaver			.02	.20	.29			.49	.08	T.	.02							.21	.10	.29	.06											.57
Herr's Isl. Dam	Ohio																																
Indiana	Conemaugh			.50					.40												.55												.95
Irwin	Youghiogheny		.49	.14	T.				.30	T.									.27	.04	.54	.08											T.
Johnstown	Conemaugh		.56	.12	.07				.21	T.			.05						.15	.12	.37	.11										.01	.24
Ketner	Allegheny		.22	.28	.08				.27		.04	.13	.42						.30	.10	.25	.06											.53
Linesville	Beaver	.43		.04	.24	.55			.78	.51		.04	.51	.30						.05	.37	.39											.24
Lock No. 4	Monongahela	.19		.45	.25	.14			.22	T.			.02							.13	.35	.02											.55
Lycippus	Conemaugh		.92	.12	.08				.27				.05							.28	.65	.07											.70
New Castle	Beaver		.05	.02	.43			.32	.12			.03	.02						.10	.30	.15	.01										.63	.44
Newell	Monongahela		.59	.12				.24		T.			.05		T.				.17	.26	.06												.56
North Shenango	Beaver	.33		.23	.45			.84			.23	1.00	.22							.46	.23	.36											.22
Parkers Landing	Allegheny	.40		.03	.04	.16		.20	.12											.25	.30	.19										.01	
Pennline	Beaver	.15		.30	.55			.86	.43			.05	.47	.22					T.	.08	.31	.38										.03	
Pittsburgh	Ohio		.24	.21	T.		.03	.17	T.		T.	T.							.24	.29	.07											T.	
Ridgway	Allegheny		.27	.15				.27	.05			.30	.17						.40		.38												.45
Saltsburg	Conemaugh	.18		.25	.23	.13		.25	.01	T.		.02								.27	.33	.06											.88
Sharon	Beaver		*	.06	.59			.47	.20		T.	.06								T.	.15	.24											.32
Somerset	Youghiogheny		.76		.26			.53				.11	.12						.28	.48	.24												.23
Springdale	Allegheny	.40		.18	.02	.20		.16	.07											.30	.41	.16											.83
Summit	Beaver			.57	1.34			1.20	.60			.57							.79	.88	.40												.20
Tionesta	Allegheny		.13	.07	.15			.42	.15		.06	.75	.14						.16	T.		.32											.60
Turnerville	Beaver			.30	.31			.60	.20			.40	.10						.30	.10													.23
Uniontown	Monongahela		.79	.09	.14			.58				.12							.15	.08	.60	.05										.05	
Vandergift	Conemaugh		.20		.07			.18	.20											.13	.29												.89
Warren	Allegheny		.20	.55				.42		.22	.30	.84								.10	.20												.24
Washington	Ohio		.23	.25			.14	.13			.01	.01							.14	.30	.11	.01											.24
Waynesburg	Monongahela		.58						.35			.34	.63	.22						.30	.48												.19
Westford	Beaver	.05		.62				.88	.30		.34	.63	.22							.32	.26												.25
West Newton	Youghiogheny	.13		.52	.26	.15		.27				.04								.21	.38	.19											.64
Lake Drainage.																																	
Erie***	Lake Erie			.21	.95			.85	.59	T.	.22	.21	.27	T.					T.	T.	.08	.07										.01	.11
West Bingham	Genesee			.32	.06			.08	.07	T.		.15	.30							.56	.25	.03										.15	.35

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement. T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

Daily Temperatures for October, 1921.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
Altoona.....	Maximum...	68	73	62	54	58	69	73	66	60	67	65	57	54	67	72	70	73	72	66	56	49	68	66	69	61	54	57	64	65	60	56	63.6
	Minimum.....	41	45	51	42	41	48	43	40	32	40	45	39	33	36	35	37	43	42	47	42	38	42	43	35	48	31	36	38	41	48	50	41.0
Brookville.....	Maximum.....	70	73	75	51	60	68	70	55	58	60	63	47	....	67	71	72	72	73	61	47	....	63	65	71	55	56	62	70	72	64	58	63.8
	Minimum.....	39	37	36	41	35	42	37	34	31	37	38	30	....	24	27	27	30	39	35	40	....	29	32	30	33	26	23	37	32	43	50	34.3
Catawissa.....	Maximum.....	74	82	61	60	65	72	74	48	59	73	72	52	59	69	74	76	73	69	67	58	58	71	68	67	58	61	62	64	73	70	63	66.2
	Minimum.....	43	42	47	44	42	43	43	38	38	38	42	46	30	30	32	34	36	51	46	47	40	33	40	31	41	26	23	31	40	40	47	38.8
Chambersburg.....	Maximum.....	74	76	67	60	63	74	76	66	69	77	73	63	58	68	72	75	72	74	65	58	55	74	70	66	59	56	62	67	68	62	57	67.0
	Minimum.....	40	43	50	43	44	43	40	45	33	38	42	45	29	29	30	34	34	40	47	43	41	36	47	36	39	26	25	37	38	44	50	39.1
Emporium.....	Maximum.....	66	71	61	54	59	69	70	66	55	59	58	52	56	64	69	67	69	73	63	52	49	69	66	62	69	51	55	56	67	68	66	61.9
	Minimum.....	40	40	45	43	40	39	43	41	38	38	41	37	26	27	26	29	34	43	41	44	35	28	30	35	21	23	32	38	41	45	45	36.2
Erie.....	Maximum.....	69	69	60	53	59	63	62	48	57	55	61	48	55	65	68	74	70	62	50	49	69	62	66	50	60	61	64	70	70	63	64	60.9
	Minimum.....	51	57	48	42	51	51	46	39	40	47	45	38	42	43	46	47	52	56	47	43	41	47	42	41	36	35	40	51	53	56	55	46.1
Grove City.....	Maximum.....	69	71	71	64	59	68	65	54	57	63	53	54	66	71	70	72	70	61	51	52	67	63	72	62	57	60	70	70	63	64	63.8	
	Minimum.....	44	43	53	39	41	42	50	39	34	43	43	38	30	30	31	33	38	50	45	41	36	35	41	36	44	33	36	49	40	45	59	40	47.7
Harrisburg.....	Maximum.....	72	75	62	58	62	71	76	66	60	75	70	54	56	66	71	72	70	70	68	57	54	72	66	67	55	52	58	64	68	63	57	64.7
	Minimum.....	50	48	56	48	48	48	48	47	41	45	48	43	37	39	39	40	42	54	54	49	43	42	49	42	41	33	33	40	43	50	53	44.9
Holtwood.....	Maximum.....	65	68	65	64	64	71	76	60	69	66	76	55	58	72	70	78	69	70	74	61	60	74	71	69	63	57	62	69	71	71	62	67.1
	Minimum.....	47	54	47	46	43	45	44	46	48	48	42	38	36	37	40	43	48	51	45	44	41	43	45	35	32	34	38	41	45	45	52	43.3
Indiana.....	Maximum.....	72	77	67	56	60	70	72	66	60	64	68	60	55	71	73	74	74	72	69	59	51	66	64	73	68	57	64	71	71	65	60	66.1
	Minimum.....	40	42	54	37	40	41	42	40	32	41	40	38	29	28	36	35	37	46	45	41	37	33	37	38	43	34	36	47	44	53	51	39.9
Mount Pocono.....	Maximum.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Philadelphia.....	Maximum.....	72	77	69	64	64	70	78	66	61	77	77	64	56	67	72	71	69	71	72	62	58	68	66	68	62	53	60	63	62	66	61	66.6
	Minimum.....	57	57	60	48	48	51	53	44	41	49	58	46	40	44	48	53	52	52	57	51	47	44	53	48	43	36	38	44	50	49	51	48.2
Pittsburgh.....	Maximum.....	69	74	63	50	59	68	71	47	60	63	64	46	54	68	71	70	73	72	63	49	53	67	64	74	62	60	63	69	69	66	66	63.5
	Minimum.....	48	50	49	41	42	48	47	39	38	51	45	37	35	38	41	39	44	56	48	42	39	42	45	41	42	40	41	55	50	56	55	44.6
Reading.....	Maximum.....	70	77	63	59	62	71	76	66	61	73	73	60	56	67	74	74	67	69	70	57	55	70	65	66	58	52	57	64	68	66	58	65.9
	Minimum.....	50	49	55	47	46	48	48	44	42	42	48	43	38	40	41	42	47	54	55	49	45	44	50	40	41	36	32	36	43	46	51	44.3
Scranton.....	Maximum.....	68	75	62	57	62	70	72	62	52	69	67	53	55	65	72	73	68	64	55	50	66	59	61	55	56	60	65	70	69	59	63	61.9
	Minimum.....	49	46	54	46	44	47	45	42	38	41	43	40	37	35	36	38	41	52	53	45	40	39	40	35	37	28	30	38	41	46	50	41.8
Somerset.....	Maximum.....	69	75	62	65	55	68	70	62	60	63	72	55	48	70	73	72	75	70	71	47	58	67	68	76	62	43	60	70	64	56	52	63.8
	Minimum.....	40	40	48	42	36	36	40	35	30	32	50	31	29	26	30	31	35	41	38	35	36	45	40	35	42	32	35	45	40	50	50	37.9
State College.....	Maximum.....	67	70	64	53	57	67	67	64	58	66	64	55	53	66	69	69	70	68	59	57	50	69	62	65	60	50	53	64	67	62	56	62.0
	Minimum.....	44	41	49	42	41	46	45	38	34	43	41	38	30	34	34	33	37	47	46	42	36	41	44	34	36	27	33	37	37	45	49	39.6
Towanda.....	Maximum.....	69	76	62	56	61	66	69	66	51	66	65	58	56	69	75	72	73	69	62	52	48	72	60	64	53	53	59	63	68	67	58	63.2
	Minimum.....	46	43	51	42	42	48	41	42	34	40	39	43	31	28	30	32	51	41	45	36	32	36	29	38	23	24	34	38	40	47	37.9	
Uniontown.....	Maximum.....	70	75	63	57	58	68	73	66	63	70	69	58	54	71	71	71	74	73	64	59	53	67	65	70	64	62	70	72	69	65	62	65.0
	Minimum.....	45	43	57	41	41	47	45	43	37	49	44	40	34	28	32	35	38	43	50	42	39	39	38	38	45	41	42	53	45	57	55	42.8
Warren.....	Maximum.....	72	74	64	53	62	66	65	55	57	55	64	48	57	69	76	75	74	75	62	54	50	69	58	75	53	62	64	65	70	65	61	63.5
	Minimum.....	40	41	48	44	40	44	45	40	36	40	40	38	30	28	28	31	36	49	45	42	35	31	40	33	35	29	33	45	39	45	52	38.3
Wellsboro.....	Maximum.....	75	72	60	55	60	63	67	62	50	57	60	50	54	67	72	72	70	66	60	53	49	67	60	69	72	56	67	71	65	55	63	64.3
	Minimum.....	39	40	47	37	38	42	38	36	31	36	37	35	26	26	27	29	44	42	42	43	34	30	32	32	40	27	24	30	31	52	43	32.4
Williamsport.....	Maximum.....	72	75	72	69	64	70	71	69	55	69	66	60	57	64	69	70	67	66	66	60	55	72	67	63	59	54	50	58	68	66	62	64.3
	Minimum.....	44	44	56	47	44	48	44	43	41	41	43	45	33	33	33	34	37	51	49	48	41	34	43	35	43	29	29	34	40	44	51	41.3

551.03
UNP

JAN 13 1922

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

VOL. XXVI PHILADELPHIA, PA., NOVEMBER, 1921. No. 11.

GENERAL SUMMARY.

November weather was a marked departure from the pleasant conditions that prevailed during October. Rains were of almost daily occurrence and the weather was dark, gloomy, and disagreeable. The mild temperatures were almost the only redeeming feature of the conditions for the month. Outdoor work was seriously delayed, being suspended at times for several days in succession. The excessive rainfall soaked the soil thoroughly, causing numerous landslides. The ponds were filled and the streams were raised to the flood stage in some places. Considerable corn remained in the fields at the beginning of the month and it was impossible to husk it all and keep it dry for cribbing, while much of the fodder was spoiled. Some plowing was done but the condition of the soil was unfavorable a large part of the time, being too dry at the beginning of the month and too wet near its close. The conditions were very favorable for winter wheat and rye, which made a good growth and were generally good or excellent. The temperatures were not low enough to freeze pasture grasses in the southern part of the State and there was considerable feed until near the end of the month. The season's road building program was finished under the adverse conditions with many delays. A few severe local storms were reported during the month. At Lebanon a heavy thunderstorm occurred on the 1st. A barn was struck by lightning and burned, together with practically all of a season's crop. At Newell a house was destroyed by a landslide. A passenger train was struck by a landslide near Uniontown but no lives were lost. At Pittsburg the river overflowed the lowlands on the north side, and many families were compelled to leave their homes.

TEMPERATURE.

The mean temperature for the State, as determined from the records of 79 stations was 42.3°, or 1.3° above the November normal. The highest mean was 47.2° at Newell, and the lowest was 35.6° at West Bingham. The highest temperature recorded was 80°, and occurred at five stations on the 18th. The lowest temperature was 3° at West Bingham on the 13th.

PRECIPITATION.

The average precipitation for the State as determined by the records from 128 stations was 5.75 inches, or 3.20 inches above the November normal. In other words it was more than twice as much as the average November precipitation. The greatest amount was 9.14 inches at Clearfield, and the least was 3.20 inches at Harrisburg. The greatest 24-hour rainfall was 2.50 inches at Edinboro on the 1st. The snowfall averaged 1.4 inches, although many stations reported none. The heaviest snowfall was 8.5 inches at West Bingham, while 8.0 inches fell at Cresson on the 28th.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.				
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	42.0	294.4	14	83	82	10,614	14.7	53	ne.	1
Harrisburg.....	122.8	299.4	41	78	73	5,069	7.0	31	s.	1
Philadelphia.....	118.2	299.4	39	83	77	7,399	10.3	32	nw.	5
Pittsburgh.....	74.4	247.0	25	83	79	8,546	11.9	47	nw.	4
Reading.....	76.0	299.0	25	84	78	2,575	3.6	20	s.	1
Scranton.....	.....	.....	.....	85	79	5,366	7.5	30	w.	4

* For any five-minute period.

COMPARATIVE DATA FOR NOVEMBER.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	42.2	79	4	3.37	6.22	1.99	9	7	14
1889.....	41.8	73	10	6.72	10.16	2.72	5	8	17
1890.....	41.8	78	10	1.49	4.29	0.78	9	10	11
1891.....	39.7	76	6	2.65	5.70	1.09	9	8	13
1892.....	59.0	80	10	4.34	7.08	1.61	6	8	16
1893.....	39.2	68	-4	2.93	5.69	1.16	8	11	11
1894.....	38.2	74	6	2.50	3.64	0.74	10	9	12
1895.....	42.9	78	6	2.48	5.73	0.97	10	8	11
1896.....	46.0	83	12	3.55	8.05	0.82	8	9	13
1897.....	41.6	76	2	5.28	7.04	2.37	6	8	16
1898.....	40.0	73	2	4.03	7.34	1.44	8	9	13
1899.....	41.5	72	8	2.66	4.86	0.61	10	8	12
1900.....	43.5	79	7	4.10	6.92	1.67	6	9	15
1901.....	36.0	76	7	2.56	5.00	1.23	7	8	15
1902.....	47.3	78	9	1.53	3.02	0.50	10	8	12
1903.....	36.9	78	0	2.18	5.33	0.88	11	8	11
1904.....	38.8	79	-4	1.14	3.31	0.14	10	9	11
1905.....	39.1	68	5	2.47	3.72	1.08	11	8	11
1906.....	41.5	80	9	1.48	3.08	0.54	12	6	12
1907.....	39.8	70	4	3.60	7.52	1.05	13	8	9
1908.....	41.2	75	-2	0.90	1.97	0.20	12	8	10
1909.....	46.4	80	15	1.40	3.97	0.26	12	8	19
1910.....	36.8	68	9	2.45	5.63	0.33	4	7	10
1911.....	37.8	77	7	2.84	5.68	0.99	7	7	16
1912.....	43.0	81	7	2.17	4.83	0.61	10	8	12
1913.....	43.9	79	10	3.05	6.34	1.43	10	5	15
1914.....	40.6	81	-2	1.76	4.27	0.57	12	9	9
1915.....	42.1	79	13	2.28	5.32	0.22	10	9	11
1916.....	41.3	79	4	2.27	7.97	0.88	13	6	11
1917.....	37.6	69	-5	0.63	1.37	0.12	14	7	9
1918.....	42.1	76	11	2.03	4.07	0.44	12	6	12
1919.....	41.2	76	11	5.35	8.45	1.84	11	7	12
1920.....	40.3	75	5	3.54	6.42	1.85	7	7	16
1921.....	42.3	80	3	5.75	9.14	3.20	5	7	18

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	3.9	12.9	29	2.0	1	18
Phillipsburg.....	Delaware.....	3.3	16.5	29	0.9	1	22
Mauch Chunk.....	Lehigh.....	4.6	7.3	29	4.0	24	15
Wilkes-Barre.....	Susquehanna.....	7.0	22.4	29	3.1	1	20
Williamsport.....	Susquehanna.....	5.2	15.7	29	1.0	1	20
Harrisburg.....	Susquehanna.....	5.3	15.4	30	3.5	1	17
Freeport.....	Allegheny.....	10.8	19.9	29	4.0	1	22
West Newton.....	Youghiogheny.....	4.5	18.0	29	1.8	1	20
Greensboro.....	Monongahela.....	.....	.....	.....	.....	.....	.....
Pittsburgh.....	Ohio.....	10.2	25.4	29	5.4	8	22
Beaver Dam.....	Ohio.....	15.4	34.2	29	7.8	8	30

Climatological Data for November, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	34	40.9	+0.5	74	19	19	13	30	7.78	+5.97	1.61	4.0	16	6	7	17	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	37	40.8	-3.2	79	19	18	13	41	5.46	+2.41	1.51	0	14	1	18	11	w.	Prof. Chas. H. Rominger
Bustleton.....	Philadelphia.....	125	2	44.6	.....	76	18	25	11	26	4.31	.....	0.85	0	14	11	6	13	w.	Experiment Station.
Carlisle.....	Cumberland.....	467	54	43.2	+2.5	72	19	25	13	31	5.23	+2.15	1.60	T.	14	8	3	19	ne.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	24	42.6	+0.2	78	18	22	13	31	5.99	+3.43	1.38	T.	15	6	7	17	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	25	.....	.....	.....	.....	20	13	.....	6.42	+4.41	2.18	4.5	12	5	4	21	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	21	43.0	+1.6	76	18	24	6†	37	4.35	+1.70	1.26	0	12	5	12	13	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	11	41.8	+1.2	74	19	20	13	30	9.14	+7.27	1.50	1.5	24	4	5	21	e.	E. W. Hess.
Coatesville.....	Chester.....	380	33	43.0	+0.1	76	18	20	11	31	5.27	+2.12	0.93	0	16	5	12	13	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	11	42.3	.....	77	18	24	11	29	4.75	.....	1.86	0	16	6	10	14	ne.	Wm. A. Korer.
Emporium.....	Cameron.....	1,050	33	40.3	+1.1	73	19	23	13	26	6.01	+3.35	1.55	0.5	18	1	7	22	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	20	44.4	+2.0	76	18	26	13	30	5.33	+3.00	2.45	T.	15	5	8	17	n.	E. K. Hershey.
Everett.....	Bedford.....	1,080	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,873	6	37.4	.....	67	18	20	13	28	7.46	.....	1.80	3.5	22	1	7	22	sw.	Theo. Reichmann.
George School.....	Bucks.....	190	14	43.5	+0.9	77	18	21	11	31	4.03	+1.47	0.70	0	20	5	10	15	w.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	47	45.9	+4.6	80	18	23	13	42	4.78	+2.20	1.52	0	11	7	11	12	sw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	17	40.7	+1.7	76	18	19	13	33	5.91	+3.39	1.48	T	15	4	4	22	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	28	43.4	+1.2	75	19	26	13†	32	4.50	+1.80	1.00	0	11	8	8	14	w.	State Sanatorium.
Hanover.....	York.....	600	17	45.2	+1.0	77	18	15	9	32	4.32	+2.67	1.39	0	14	11	8	11	w.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	51	43.8	+2.1	76	18	29	13	30	3.20	+0.85	1.17	T.	15	3	10	17	ne.	U. S. Weather Bureau.
Huntingdon.....	Huntingdon.....	650	33	43.2	+1.7	75	18	23	13	44	6.71	+4.57	1.66	1.0	16	3	4	23	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	1	42.0	.....	76	19	24	13	25	6.40	.....	1.50	T.	18	6	3	21	w.	C. B. McCullough.
Kennett Square.....	Chester.....	340	49	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster.....	Lancaster.....	255	33	43.4	+0.3	79	18	21	11	39	5.34	+3.00	2.08	0	15	12	8	10	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	23	39.1	+0.4	75	19	13	13	34	5.15	+3.03	1.00	2.0	16	3	5	22	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	80	43.1	+0.9	80	18	27	13	35	5.60	+2.77	2.12	T.	19	9	11	10	e.	S. B. Benzing.
Lewisburg.....	Union.....	450	46	42.4	+3.3	74	18	23	13	37	5.86	+3.41	1.68	T.	17	1	9	20	s.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	6	41.6	.....	78	18	21	11	33	5.24	.....	1.31	T.	16	5	4	21	nw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	1	45.2	.....	76	18	29	13	21	3.45	.....	0.65	0	16	6	9	15	w.	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	31	41.7	+1.1	77	18	21	8	30	4.99	+1.75	1.27	T.	13	6	7	17	w.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	17	42.9	+2.3	76	19	25	13	31	6.51	+4.92	1.65	T.	13	5	2	23	nw.	Wellington Smith.
Montrose.....	Susquehanna.....	1,658	18	36.0	-0.9	72	19	9	13	36	7.22	+5.05	1.75	3.0	14	10	2	18	w.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	9	39.8	.....	70	18†	17	13	34	5.20	.....	1.09	T.	21	6	5	19	.....	A. H. Boatman.
Narberth.....	Montgomery.....	300	2	44.6	.....	75	18†	27	13	24	5.28	.....	0.83	T.	16	5	7	18	sw.	Charles Decker.
Neshaminy Falls II.....	Bucks.....	60	32	43.6	.....	78	18	20	11	36	4.15	.....	1.10	T	20	12	4	14	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	4	41.1	.....	77	18	25	11	29	4.10	.....	1.07	0.2	13	14	9	7	ne.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	50	46.8	+1.9	75	19	32	13	22	3.69	+0.63	0.97	T.	16	7	7	16	nw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	5	46.0	.....	75	18†	30	13	22	4.50	.....	0.80	T	17	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	10	43.9	.....	72	18†	21	11	28	4.55	.....	0.81	T	15	9	14	7	nw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	36	41.6	+0.6	76	18	22	8†	34	4.18	+1.10	0.76	T.	14	3	10	17	ne.	John E. Benner.
Reading.....	Berks.....	325	51	43.7	+1.2	78	18	28	13	28	5.87	+2.75	2.26	2.0	17	3	9	18	nw.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	10	44.6	.....	78	18	27	11†	29	5.44	.....	1.18	0	14	5	11	14	w.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	26	41.2	+2.1	74	18	25	13	19	5.03	+2.74	1.57	1.6	18	1	10	19	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	31	42.3	+0.8	73	18	21	27	29	6.42	+3.89	2.34	0	12	3	7	20	w.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	25	45.6	.....	75	19	28	11	27	4.12	+1.33	0.70	0	15	5	12	13	nw.	W. S. Gilles.
State College.....	Center.....	1,217	36	40.0	+0.3	71	18	19	13	29	5.95	+3.76	1.85	1.5	17	2	10	18	w.	Prof. Wm. Frear.
Stroudsburg.....	Monroe.....	500	9	41.4	.....	76	18	20	13†	33	4.55	.....	0.95	T.	16	.....	.....	.....	.....	H. Q. Snyder.
Towanda.....	Bradford.....	754	26	39.8	+0.5	74	18	19	13	30	5.47	+3.57	1.28	1.9	20	2	8	20	w.	Hiram E. Bull. C. E.
Wellsboro.....	Tioga.....	1,419	55	36.7	-0.8	74	19	8	13	28	5.24	+2.69	1.32	4.3	18	3	2	25	w.	George W. Hill.
West Chester.....	Chester.....	455	87	44.0*	+1.2	78*	18	25*	11†	29*	4.36	+0.77	0.73	0	16	9	9	12	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	34	42.2	+1.4	74	19	25	13	24	6.21	+3.92	1.77	0.3	18	4	2	24	w.	Jacob April.
York.....	York.....	400	33	45.0	+2.5	80	18	23	11	35	4.59	+2.09	1.62	0	13	5	15	10	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam†.....	Beaver.....	700	28	44.0	.....	77	19	21	13	30	5.33	+3.04	0.64	5.0	18	2	1	27	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	6	39.6	.....	70	19	24	13	27	4.94	.....	0.76	2.3	22	1	5	24	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	3	40.6	.....	72	18†	14	13	34	6.43	.....	1.20	0.2	18	3	3	24	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	30	39.2	.....	74	19	17	13	37	6.21	+3.39	1.15	.....	14	9	5	16	.....	John Fawcett.
Claysville.....	Washington.....	1,150	17	44.8	+3.3	76	18	18	13	33	6.15	+4.42	0.86	4.0	17	10	4	16	s.	J. L. Melvin.
Corry.....	Erie.....	1,400	9	38.4	.....	65	18	22	13	27	6.76	.....	1.93	6.1	25	2	5	23	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	24	42.8	+0.9	80	18	19	13	40	7.29	+4.85	2.20	2.0	17	9	5	16	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	3	40.0	.....	73	18	14	13	30	7.94	.....	1.40	5.0	15	9	5	16	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	4	41.6	.....	75	18	†												

Daily Precipitation for November, 1921.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown	Lehigh	.24	.35							.42		.03	.12		.20		.45		.02	.42	.02					.10		.23	.64	1.88		5.12	
Altoona	Juniata	1.49	.09							.17		.08	.31	.11		.15	.25	.65	.05	.03					.41		.80	.73	1.61	.85		7.78	
Ansonia	N. Br. Susq.	.07	.89	T.	.07	T.	T.	.09			.37		.19	.06	T.	.08		.08	.44	.04	.20				.22	.12	T.	.42	1.12	.35		4.81	
Arendtsville	Potomac																																
Austin	W. Br. Susq.	.30						.65						.20						.50	.30						.90	1.05	.65	*		4.55	
Bellefonte	do	.78								.33	*	.26	*	.09	.18		.43				.46				.13		.30	.28	*	2.05		5.46	
Bethlehem	Lehigh	.30							.60	*	.15									1.05	.61	.06				.31	.09	.13	.45	.85		6.13	
Bloersville	Lower Susq.	1.70							.21	.06	.30		.22				.67				.61				.31		.24	.04	1.20	.14		4.31	
Bustleton	Lower Del.	.26	.09						.30	.09	T.	.11	.02		.11	.32		.11	.32		.69				.35		.24	.04	1.20	.14		5.23	
Carlisle	Lower Susq.	1.60	.02			T.			.34		.08	.34	T.	.22		.09	.12		.77						.11		.42	.67	2.18			6.42	
Catawissa	N. Br. Susq.	.61		.01	.04				.22		.18	.22	.34		.18		.18							.13		.42	.67	2.18				6.42	
Center Hall	Susquehanna	1.68	.02						.22	.04		.10		T.	.02	.32		.32		T.	.68				.36		.15	.04	1.05	.04		4.35	
Chambersburg	Potomac	1.26							.29	.04		.10		T.	.02	.32		.32		T.	.68				.36		.15	.04	1.05	.04		4.35	
Clearfield	W. Br. Susq.	1.33	.25	.08		.03	.05	.06	.35	.28	.11	.36	.12	.10	.22	.05	.66	.40	.26	.03			T.	.50	.06	1.25	.50	1.50	.59			9.14	
Coatesville	Lower Del.	.93	.29		.04				.31	.09		.17		.13	.01		.47				.35	.08			.35		.17	.49	.76	.25		5.27	
Colebrook	Lower Susq.	.61	.06	T.	.06				.29	.18		.10		.03	.05	.08	.20				.60				.25		.15	.10	1.86	.13		4.75	
Cresson	Juniata	1.10	1.12						.12		.30	.03	.17	.15	.38	.32	.40	.20							.50	.30		.40	1.10	.70	1.10	8.89	
Doylestown	Lower Del.	.39	.13						.27	.07		.18		.11		.35		.35		.53	.22				.16	T.	.08	.14	.44	.49		3.76	
Driftwood	W. Br. Susq.	1.04			.20				.30	.20	.40	.30	.40		.09	.20			.08						.70		.80	1.00	.80			6.71	
Emporium	W. Br. Susq.	1.55			.16	T.	.22		.35	.20	.06	.27	T.	.33	.07	.04	.45	.15	.18	.06			T.		.36		.40	.75	.41			6.01	
Ephrata	Lower Susq.	.49	.07		.04				.34	.15		.10		.12	.09	.43				.55	.03				.28		.16		2.45	.03		5.33	
Everett	Juniata																																
Forest City	N. Br. Susq.	.21	.41					.16	.06	.21	.35	.21		.02	.06	.04	.06		.27	.10		.65			.28	.09	.20	.39	1.57	.78	.03	5.97	
Freeland	Lehigh	.30	.62	.01	.08	.06	T.	.01		.35		.02	.06	.04	.06		.34	.12	.04	.96	.01			.04	.26	.10	1.80	1.30	.88			7.46	
George School	Lower Del.	.17	.09						.19	.07	.01	.20	.01	.17	.07	.01	.65		.01	.60	.07	.01		.25		.10	.15	.70	.50			4.03	
Gettysburg	Potomac	1.52							.40	.08		.03		.09			.34	T.		.32				.32		.12		.14	.48	.08		4.78	
Girardville	Schuylkill	.90		.04	.06				.39	.03	.03	.36			.05	.25		.14						.15		.33	.96	1.82	1.26			7.77	
Gordon	Lower Susq.	.90		.02	.04	T.			.17	.12	T.	.40			.05	.25	.03		1.03					.09		.27	.19	1.48	.87			5.91	
Gouldsboro	Lehigh	.16	.88	.06				.02		.18		.07			.10		.08	.26		.75							.27	.09	.72			5.31	
Graterford	Schuylkill	1.00	.14							T.	.04		.16		.08	.21	.10		.14	.18					.52		.27	.09	.72			3.65	
Hamburg	Schuylkill	.91		.10					.38		.12		.16		.31		.48							.13		.21	.70	1.00				4.50	
Hanover	Lower Susq.	1.39							.33	.08	.09	.09	.09	.05		.20		.39	.02						.35		.10	.05	1.04	.14		4.82	
Harrisburg	do	.37	T.	T.	T.	T.			.22	.02	.01	.13		.01		.16		.49	.01				T.	.21		.20	.38	.81	.01			3.20	
Hawley	Upper Del.	T.	T.		T.	T.			T.	.20	T.	T.		T.			T.		.62	T.				T.	.25		.60	1.40	1.30			4.87	
Holtwood	Lower Susq.	.20							.43		.03	.06		.11		.22		.46	T.		.46	T.		T.	.30		.17	1.33	.52			3.83	
Huntingdon	Juniata	1.22							.25	.08	.06	.37	.12		.06	T.	.56	.04	.02	.04					.22		.54	.67	1.66	.80		6.71	
Jersey Shore	W. Br. Susq.	1.40	.20		.03				.02	.32	.09	.40	.05	.12		.25	.20	.10	.18					T.	.13		.46	.58	1.50	.37		6.40	
Lancaster	Lower Susq.	.51	.10						.39	.21		.13		.12	.08		.35		.61	.07					.28		.14	.07	2.08	.20		5.34	
Lansford	Lehigh	.19	.88			.04			.15	.10		.10	.07	.04		.15	.05	.07	.50							.10		*	1.50	.86		4.80	
Lawrenceville	N. Br. Susq.	.65	.80	.05	T.	.10		.10	.20	.20	T.	.50	T.		T.	.40	.10	.05					T.	.10		.25	.60	1.00	.05			5.15	
Lebanon	Lower Susq.	.74	.11		.04				.32	.19	*	.01		.20	.06	*	.36	.02	T.	.56				.22		.21	.09	2.12	.22	*		5.60	
Lewisburg	W. Br. Susq.	.84	.01	.02	.01	.01			.15	.17	.40	.14		.02			.20		.67						.15		.46	.59	1.68	.47		5.86	
Lloyd	W. Br. Susq.	.72							.25	.12	.10	.16	.24				.21	.14							.38	.30		.40	1.18	.16		4.36	
Lock Haven	W. Br. Susq.																																
Lykens	Susquehanna	.90		.02	.04				.17	.17	T.	.40	.02		.04		.35	.01		.93				.10	T.	.24	.15	1.31	.33			5.24	
Marcus Hook	Lower Del.	.17	.31						.20		.29	.03	.08		.02	.39		.02	.65	.03				.21		.06	.17	.58	.24			3.45	
Mauch Chunk	Lehigh	.89		T.	.04				.18	.11		.16	T.			.21	.05		.73					.08		.22	.38	1.27	.67			4.99	
Mifflintown	Juniata	1.43		.01					.35	.17	.06	.33		.03		.38	.01		.53							.28	.52	1.65	.79			6.51	
Montrose	N. Br. Susq.		.70			.18				.18	T.	.20				.05		1.30		.95				.15	.18		.20	.60	1.15	.68	.70	7.22	
Mount Pocono	Upper Del.																																
Mount Union	Juniata	1.11	.03						.33		.24	.03	.02		.40	.15		.19							.28		.36	.45	.91	1.17		5.67	
Muncy Valley	W. Br. Susq.	.48	.02	.04	.03	.03		.03	.02	.28	.10	.41	.06	.02	.08		.75	.25	T.	.69				T.	.08		.19	.47	1.09	.08		5.20	
Narberth	Lower Del.																																

Daily Precipitation for November, 1921. - Continued from page 43.

Stations.	Drainage Basin.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Davis Isl. Dam	Ohio.	.90	.58	.02						.37	T.	.58	T.	.10	.12		.52	.26		.22					.19	.19	.40	.28	.84	.23		5.80					
Derry.	Conemaugh.	.33		.03					.19		.14	.40	.11		.30	.33	.60	.05	.19					.77		.68	.65	2.20	.29	.03		7.29					
Ebensburg	Conemaugh.	1.25	.11						.12	.16	.10	.33	.06				.86	.52	.06					.46		.81	.65	1.40	1.05			7.94					
Edinboro	Allegheny.	2.50	.46	.04	.08	.24	.08	.04		.35	.47	.08	.27	.05	.09		.02	.91	.60	.24				.02	.43		.16	.20		.20		7.53					
Elk Lick.	Youghiogheny	.60	.05						.17	.06	.02	.08	T.	.17	.10	.10	.74	.02	.02	.02				.40		.28	.61	1.55	.19	.02		5.60					
Falls Creek.	Allegheny	.96	.44		.05	.06			.24	.26	T.	.39	.11		.23	T.	.68	.26	T.	.28				.72		.55	.42	.65				6.30					
Franklin	Allegheny.	.40	1.02		.06	.05		.08		.09		.49	.27	.04	.14	.20		.44	.30	.08	.30			.19	.04	.13	.25	.54	.02	.02		5.15					
Freeport	Allegheny.	.42	.60		T.				T.	.51	.01	.42	.11	.10	.19		.45	.36	T.	.48				.25	.30	.55	.41	.72	.33			6.21					
Greensburg.	Youghiogheny	.46	.05						.20	.17	.07	.41	.18	.04	.16	.20	.63	.07	.26	.01				.79		.77	.62	1.29	.42			6.80					
Greenville	Beaver.	2.38				.07			.22	.34	T.	.53	1.	.15			.55		.21				.24	.26		.15	.18			T.		5.28					
Grove City	Beaver.	2.46	.34		.06				.24	.22	.03	.26	.04	.04	.02	.20	.70	.05	.25	.02				.45		.62	.45	.12	T.			6.57					
Herrs Isl. Dam	Ohio.	.84	.50	.02						.39	T.	.55	T.	.14	.15		.98	.29		.22				.21	.32	.45	.27	.77	.31			6.41					
Indiana.	Conemaugh.	1.24	.10						.18		.40	.42	.16	.05	.26			.60		.18				.51		.61	.47	1.20	.65			7.03					
Irwin.	Youghiogheny	.70	.10						.17	.26	.03	.38	.11	.07		.28	.81	T.	.18	.08				.69	T.	.70	.55	1.02	.25			6.38					
Johnstown	Conemaugh.	.44	T.	T.					.24	.08	.15	.34	.17	.16	.03	.23	.74		.10				T.	.62		.74	.48	1.89	.78			7.19					
Ketner.	Allegheny.	1.05	.17		.15	.16	.07		.37	.30	.10	.26	.03	.20	.10	.05	.50	.29	.39	.05			.06	.46		.31	.47	.13				5.67					
Linesville	Beaver	.95	1.52	.01	.04	.05	.03	.13		.06	.57	.03	.21	.06	.14			.67	.64	.34	.16				.27	.06	.01	.15	.09			6.19					
Lock No. 4	Monongahela.	.76	.13							.33		.33			.11	.10		.55	.25		.18				.16	.49	.20	.52	.80	1.65			6.56				
Lycippus.	Conemaugh.	.39							.17	.07	.28	.37	.12	.02	.38			.72	.07	.18				T.	.75		.57	.85	1.40	.92			7.26				
New Castle	Beaver	1.33	.01					.03		.48	.03	.38	T.	.04	.20		.46	.22	.02	.19				.38	.03	.37	.71	.20	.03			5.11					
Newell.	Monongahela.	.77	.05	.01					.02	.32		.28	T.	.04	.10			.74	.17	.19				.54	.27	.40	.91	.63	1.23			6.67					
North Shenango	Beaver	.79	2.10			T.		.25	.22	.05	.76			.07			.12	.72	.15	.22	.07			.24	.12		.04	T.		.11		6.23					
Parkers Landing	Allegheny.	.46	1.40		T.	T.	T.			.04	.50	.05	.30	T.	.04	.15		.48	.20	.04	.33				.15	.40	.32	.48	.50	.02		5.81					
Pennline	Beaver	.90	1.82	.05		.02		.06		T.	.90		.20	.02	.16			.76	.80	.35	.18				.23	.05	.02	.15	.12			6.79					
Pittsburgh	Ohio.	.57	.04		T.				.32	.09	.33	.13	.14	.12		.53	.28	.01	.22				T.	.43		.61	.83	.41	T.			5.06					
Ridgway.	Allegheny	1.14				.21	.02			.30		.35	.30		.24		.07	.53		.30				.53		.26	.59					4.94					
Saltsburg	Conemaugh.	.25	.75	.01						.46			.35	.03	.18	.19		.65	.26		.23				T.	.60	.35	.67	.79	1.10	T.	6.87					
Saegertown.	Allegheny.	2.43	.53		.10	.34	.10			.10	.40	.13	.15	.13			.70	.64	.20				.05	.37		.07	.15	.07				6.81					
Sharon	Beaver	.95	1.01	.01		T.				T.	T.	.73				.11		.87	.08	T.	T.				.31	.02	.08	.27	.35			4.79					
Somerset.	Youghiogheny	.45	.03						.22		.24	T.	.26	.16		.18	1.12		.22						.86	.80		.47	1.90	.60			7.51				
Springdale.	Allegheny																																				
Summit	Beaver.	1.36	1.57					T.			.85	*	.21	T.	* 20	*		.89	1.20	.30	.45				.24		T.	* 14	* 11			7.52					
Tionesta	Allegheny.	* 1.80			*	.23	.08			*	.64	*	*	*	.50		*	.45	.49	.44	*				.30		T.	*	* 80				5.73				
Turnerville	Beaver.																																				
Uniontown.	Monongahela.	1.34	.08	.04					.18	.10	.07	.45	.05	.02	.16	.02	1.02		.12	.08				1.11		.35	1.16	1.60	1.02			8.97					
Vandergrift.	Conemaugh.	.79	.08					.18		.28	.45		.09	.04	.18	.06	.67	.05	.13	.24				.58		.73	.50	.85	.08			5.98					
Warren.	Allegheny.	1.10	.63		.26	.05	.14			.56		.06	.25	.02	.02	.16		.05	.15	.42	.24			.20	.29	.05	.16	.47	.13			5.41					
Washington.	Ohio.	.30	.02							.35	.05	.31	.13	.13	.13		.49	.28		.28				.75		.48	.88	.78				5.36					
Waynesburg	Monongahela.									.50		.35	.20				1.00		.40					1.05		.30		2.40	1.35			7.35					
Westford	Beaver.	.83	1.85	.03		T.		.04			.66	.04	.25	T.	.07		.60	1.02	.50	.17				.32	.03		.10	.14				6.65					
West Newton	Youghiogheny	.78	.51						T.	.29		.46		.17	.13		.61	.21		.22					.73	.34	.49	.79	1.49			7.22					
Lake Drainage.																																					
Erie	Lake Erie.	1.46	T.	.03	.09	T.	.13	.01		.44	.51	.29	.22				.44	.11	.58	.03			T.	.01	.62		.17	.07	T.	T.		5.21					
West Bingham.	Genesee.	.42	.85	.03	.05	.15	T.	.05		.25	.05	.10	.30	T.			.70	.40						.40	.22		.10	.20	.59			4.86					

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement. T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

Daily Temperatures for November, 1921.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Altoona.....	Maximum...	56	51	46	53	53	41	52	45	41	43	37	35	30	35	38	43	19	72	74	58	52	63	58	57	50	39	42	42	36	40	47.7
	Minimum...	51	37	36	37	34	24	33	26	36	34	32	29	19	26	32	24	38	47	54	35	29	33	34	39	32	31	37	35	33	35	34.1
Brookville.....	Maximum...	60	40	48	53	43	41	47	47	40	43	36	34	31	38	35	50	60	72	74	45	49	52	44	56	48	44	37	33	39	45	46.8
	Minimum...	39	35	30	32	28	24	37	28	37	32	32	20	17	30	27	25	43	45	37	30	28	24	36	32	26	29	42	34	33	37	31.6
Catawissa.....	Maximum...	66	57	45	53	50	48	57	45	41	45	46	37	41	43	47	53	58	78	74	61	48	55	41	43	54	54	45	41	43	49	50.6
	Minimum...	54	45	40	32	35	28	38	27	31	36	28	35	22	30	34	28	32	47	61	39	28	31	35	34	28	26	35	37	32	31	34.6
Chambersburg.....	Maximum...	63	53	48	57	57	46	60	49	45	45	47	42	48	45	47	62	76	72	65	53	63	45	56	53	43	43	41	45	51	52.2	
	Minimum...	53	42	39	33	39	24	29	27	33	35	25	34	26	28	32	24	40	41	53	35	29	26	34	35	33	28	36	38	35	30	33.9
Emporium.....	Maximum...	58	45	45	50	52	38	45	44	40	42	37	37	32	39	38	46	57	69	73	51	49	52	42	58	46	41	45	45	39	46	46.7
	Minimum...	42	37	35	35	35	29	34	32	35	34	33	25	23	29	34	25	42	56	49	31	26	26	34	35	28	28	39	36	33	38	33.9
Erie.....	Maximum...	58	41	46	53	42	43	44	39	40	40	36	34	33	41	40	54	62	70	70	43	48	46	41	48	44	49	50	38	43	46	46.1
	Minimum...	36	36	36	36	37	34	37	32	34	32	32	29	26	33	33	32	51	58	39	37	37	35	34	38	34	39	38	36	35	39	36.2
Grove City.....	Maximum...	59	55	48	50	53	38	46	52	52	45	45	45	44	41	41	50	62	68	67	51	49	51	46	56	50	52	51	49	42	42	50.1
	Minimum...	43	34	33	34	34	27	35	34	35	31	31	28	20	28	32	26	45	54	50	35	31	32	37	42	27	39	47	37	34	34	35.0
Harrisburg.....	Maximum...	64	51	46	56	57	47	57	46	43	45	46	41	39	46	44	46	59	76	72	54	44	57	47	53	51	40	42	42	43	50	50.1
	Minimum...	51	45	40	41	40	33	39	36	34	35	32	32	29	36	35	43	46	54	35	34	34	35	33	33	34	39	38	35	35	35	37.4
Holtwood.....	Maximum...	67	61	51	59	52	52	62	51	49	51	51	42	42	46	46	49	67	78	74	52	45	62	47	55	49	45	48	41	44	53	53.0
	Minimum...	48	44	39	41	32	34	32	35	38	31	31	28	34	35	28	32	45	45	41	35	35	35	36	35	33	36	36	35	32	34	35.9
Indiana.....	Maximum...	50	51	47	51	48	52	54	53	46	49	42	37	31	43	41	55	58	60	60	57	51	51	50	60	51	56	45	48	38	44	49.5
	Minimum...	40	37	35	35	40	22	40	28	40	33	32	29	29	19	29	31	25	26	32	52	36	33	31	34	46	34	35	45	43	33	34	34.1
Mifflintown.....	Maximum...	61	54	44	49	55	46	57	49	44	49	40	40	38	42	46	47	52	74	76	58	50	59	52	51	53	41	45	45	42	47	50.2
	Minimum...	53	43	40	35	39	29	32	31	35	36	29	35	25	31	36	28	39	45	53	39	29	28	33	35	28	39	39	39	35	35	35.6
Philadelphia.....	Maximum...	66	57	50	54	53	48	61	47	44	51	49	44	43	50	50	50	64	75	75	62	46	54	50	55	52	47	47	41	45	51	52.7
	Minimum...	57	48	44	42	43	37	44	38	39	41	35	37	32	35	40	37	46	59	59	40	38	40	37	34	39	37	40	37	36	40	41.0
Pittsburgh.....	Maximum...	59	41	48	56	47	50	54	57	52	45	39	37	38	44	36	56	64	77	74	48	52	58	54	59	48	57	55	46	40	48	51.3
	Minimum...	39	36	38	39	34	31	41	35	45	35	35	24	24	36	33	58	58	40	38	38	40	40	39	37	43	45	37	45	37	38	38.0
Reading.....	Maximum...	62	50	47	51	52	46	58	48	41	46	46	43	38	47	46	49	64	78	73	53	44	56	44	48	52	41	43	40	42	48	49.9
	Minimum...	49	44	42	38	38	34	43	36	35	37	32	34	28	35	35	33	42	50	53	36	36	36	34	33	34	33	39	37	33	36	37.5
Scranton.....	Maximum...	63	48	45	48	49	41	49	43	37	43	42	40	36	42	45	51	58	74	71	52	47	53	37	48	48	43	43	41	38	45	47.1
	Minimum...	48	39	38	36	32	30	37	28	30	35	32	29	25	34	37	32	43	55	52	34	33	34	30	31	30	37	36	33	35	35	35.2
Somerset.....	Maximum...	60	50	42	52	50	51	53	55	42	40	37	35	29	42	41	46	60	69	72	52	50	63	70	60	60	53	54	50	40	45	50.8
	Minimum...	48	35	33	34	31	22	30	33	38	30	20	25	16	28	20	21	45	41	52	32	35	34	40	25	31	42	34	35	32	30	32.7
State College.....	Maximum...	58	50	42	53	54	40	50	42	40	42	39	35	31	35	38	45	53	71	66	56	48	58	47	57	48	40	43	41	37	43	46.7
	Minimum...	49	37	35	35	34	26	31	28	32	32	30	28	19	26	32	27	38	50	54	32	29	35	34	32	33	37	34	31	33	33	33.4
Towanda.....	Maximum...	65	47	41	46	49	41	46	42	36	41	41	36	33	39	41	48	52	74	73	58	47	55	38	50	46	41	43	45	38	42	46.6
	Minimum...	46	38	38	36	32	23	32	23	32	35	32	30	19	30	35	26	42	49	58	28	28	30	31	26	25	38	38	32	31	33	33.1
Uniontown.....	Maximum...	68	54	48	55	54	49	57	61	53	53	42	42	36	47	47	61	66	80	75	56	52	65	56	61	49	60	60	56	39	49	55.0
	Minimum...	50	38	38	35	35	24	38	32	48	35	33	30	22	36	35	27	54	57	56	39	39	33	49	35	44	52	33	31	35	38	38.4
Warren.....	Maximum...	57	36	50	50	45	35	40	45	38	38	35	34	30	35	35	44	60	68	70	45	51	48	38	53	42	50	50	45	38	49	45.1
	Minimum...	35	33	30	35	32	28	32	30	35	31	31	27	24	29	32	27	42	55	45	35	33	30	34	37	30	39	41	31	31	36	33.7
Wellsboro.....	Maximum...	56	40	40	40	46	33	41	42	33	38	35	33	32	35	38	45	49	68	74	55	47	54	37	55	45	35	57	40	35	45	44.1
	Minimum...	39	35	31	31	30	19	30	21	29	31	23	25	8	25	32	22	35	47	50	27	25	35	28	31	27	25	35	22	30	30	29.3
Williamsport.....	Maximum...	61	59	45	47	51	44	50	47	41	43	41	39	35	39	43	46	50	69	74	63	45	44	41	52	50	45	43	41	51	48	48.1
	Minimum...	53	43	39	34	38	30	34	32	34	36	34	33	25	30	34	36	40	46	61	39	30	31	35	35	32	30	39	38	36	35	36.1

UNP

UNIVERSITY OF ILLINOIS LIBRARY
JAN 31 1922

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

VOL. XXVI PHILADELPHIA, PA., DECEMBER, 1921. No. 12.

GENERAL SUMMARY.

The month as a whole was comparatively warm and dry and generally pleasant. A moderately heavy snow fell about the 4th, averaging about seven inches, but the texture of the snow was light and it melted rapidly. It nearly disappeared in four or five days, leaving the main highways clean and dry and the fields bare. There was very little snow during the remainder of the month but winter grains did not suffer as there was little alternate freezing and thawing of a character to heave the surface soil and break the roots. Contrary to the prevailing impression, it is not freezing of the grain roots that damages the grain, but the heaving or breaking up of a frozen crust, in which process the roots of the grain are torn apart. The conditions were favorable for a seasonable amount of outdoor work, and golf courses were occupied a great deal during the month. Storms of considerable severity occurred on the 18th and 24th respectively. In the first storm the wind damage was the chief factor. Many barns and outbuildings were damaged or wrecked in various parts of the State, houses were unroofed, and many trees were blown down. In the second storm heavy rains occurred in the western part of the State causing landslides and raising some of the streams to the flood stage. In the central part of the State rains occurred with freezing temperatures and some damage was done to wires and trees by the weight of the accumulated ice. Such storms as those described are not unusual or unseasonable, and considered as a whole the month was a favorable one.

TEMPERATURE.

The mean temperature of the State, as determined from the records of 77 stations was 31.6° or 0.8° above the December normal. The highest monthly mean was 36.3° at Vandergrift, and the lowest was 24.2° at Montrose. The highest temperature recorded was 66° at Gettysburg on the 1st. The lowest temperature was -11 at West Bingham on the 30th. Moderate cold waves occurred about the 22d and 30th respectively, but there were no severe conditions during the month.

PRECIPITATION.

The average precipitation for the State, from rain and melted snow, as shown by the records from 127 stations was 2.59 inches, or 0.61 inch below the December normal. The greatest monthly amount was 6.25 inches at Girardville, and the least was 0.91 inch at Holtwood. The greatest 24-hour rainfall was 2.20 inches at Girardville on the 2d. The snowfall averaged 7.2 inches, the heaviest being 25.0 inches at Somerset, with nothing nearly approaching that amount in the remainder of the State. The snowfall as a rule was lightest in the northern counties. Erie, Sullivan, and Monroe counties apparently had less than three inches of snow.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.				
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	51.6	284.5	18	74	70	11,676	15.7	59	sw.	18
Harrisburg.....	147.5	290.6	51	72	64	5,356	7.2	50	sw.	18
Philadelphia.....	125.0	290.6	43	74	65	6,855	9.2	31	nw.	21
Pittsburgh.....	69.3	287.3	24	80	73	8,969	12.1	56	w.	17
Reading.....	93.0	291.0	32	82	76	5,365	7.2	43	sw.	18
Scranton.....				85	75	6,176	8.3	44	sw.	18

* For any five-minute period.

COMPARATIVE DATA FOR DECEMBER.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	32.5	62	-10	3.14	5.57	1.44	8	8	15
1889.....	39.6	73	0	2.77	5.05	0.85	11	9	11
1890.....	27.2	59	-11	3.97	9.68	1.72	7	8	16
1891.....	38.4	68	-3	4.09	6.53	2.00	12	8	11
1892.....	27.8	70	-13	1.69	4.37	0.40	7	9	15
1893.....	32.2	70	-7	3.06	6.07	1.41	6	11	14
1894.....	32.4	66	-28	3.95	5.93	2.27	10	9	12
1895.....	34.2	70	-10	3.22	6.55	1.40	10	9	12
1896.....	30.6	67	-13	1.20	2.62	0.40	10	9	12
1897.....	33.0	73	-6	3.95	6.25	1.28	6	8	17
1898.....	29.8	68	-11	2.98	4.79	1.31	10	8	13
1899.....	31.5	73	-11	3.04	6.00	1.18	10	10	11
1900.....	31.2	65	-2	2.08	4.16	0.40	8	9	14
1901.....	29.1	77	-18	5.91	10.26	2.62	7	9	15
1902.....	28.4	68	-12	5.54	8.51	1.97	7	7	17
1903.....	25.4	60	-14	2.66	4.83	0.92	8	9	14
1904.....	25.8	71	-19	2.48	3.71	1.32	7	7	17
1905.....	33.6	65	-5	3.57	5.48	0.95	10	7	14
1906.....	30.8	67	-14	3.97	7.08	1.69	5	5	21
1907.....	33.2	68	-8	4.30	7.89	1.85	7	8	16
1908.....	32.0	74	-2	2.86	4.61	1.26	9	8	14
1909.....	27.0	71	-10	3.39	8.50	1.19	9	8	14
1910.....	24.4	68	-14	2.65	4.41	0.64	8	6	17
1911.....	36.3	70	5	3.27	5.99	0.75	7	5	19
1912.....	34.4	74	-8	3.27	6.48	1.70	9	7	15
1913.....	34.2	66	-7	2.63	4.11	0.69	9	6	15
1914.....	27.3	69	-28	4.63	7.74	2.43	8	5	18
1915.....	29.4	70	-7	4.06	6.53	1.36	6	8	17
1916.....	29.7	73	-12	3.07	6.38	0.59	11	9	11
1917.....	21.5	52	-28	1.78	5.16	0.60	10	8	13
1918.....	36.6	72	-1	3.38	5.74	0.90	9	7	15
1919.....	25.3	66	-23	2.61	4.75	0.95	9	8	14
1920.....	33.4	68	-7	3.28	6.77	1.53	7	9	15
1921.....	31.6	66	-11	2.59	6.25	0.91	8	8	15

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.		Lowest stage.	Date.		Flood stage.
Port Jervis.....	Delaware.....	4.2	7.6	1	2.5	31	18		
Phillipsburg.....	Delaware.....	4.1	10.0	1	2.0	23	22		
Mauch Chunk.....	Lehigh.....	4.6	7.4	3	3.9	17	15		
Wilkes-Barre.....	Susquehanna.....	7.3	16.9	1	3.7	31	20		
Williamsport.....	Susquehanna.....	4.8	11.3	1	2.7	17	20		
Harrisburg.....	Susquehanna.....	6.3	13.7	1	4.7	30	17		
Freeport.....	Allegheny.....	7.7	13.6	1	5.2	31	22		
West Newton.....	Youghiogheny.....	4.1	13.1	24	2.1	11	20		
Greensboro.....	Monongahela.....	.....	.....	.....	.....	.....	.....	.....	.....
Pittsburgh.....	Ohio.....	8.9	21.2	25	5.6	30	22		
Beaver Dam.....	Ohio.....	13.8	28.9	25	6.9	30	30		

Climatological Data for December, 1921.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation in. or more.	Clear.	Pt. cloudy.	Cloudy.		
Atlantic Drainage.																				
Altoona	Blair	1,615	34	31.0	+2.0	60	1	0	22	29	2.76	+0.39	0.70	8.0	11	9	8	14	w.	Lewis E. Biller.
Bethlehem	Northampton	205	37	29.4	-3.7	59	3	-2	22	36	2.34	-1.17	0.71	5.5	7		8	14	nw.	Prof. Chas H. Rominger
Bustletou	Philadelphia	125	2																	Experiment Station.
Carlisle	Cumberland	467	54	33.4	+2.1	59	18	7	22	27	2.75	-0.19	0.90	6.0	8	13	7	11	nw.	Prof. C. E. Miller.
Catawissa	Columbia	520	24	31.7	+0.1	60	1	6	22	33	2.96	0.00	0.94	4.5	10	14	2	15		H. H. Yetter.
Center Hall	Center	1,272	25	33.6	+4.6	60	4	1	22	32	1.22	-1.53	0.34	7.0	7	9	15	7		S. W. Yetter.
Chambersburg	Franklin	631	21	33.4	+0.5	62	1	5	22	33	3.23	+0.61	1.07	3.5	10	8	9	14	sw.	William B. Spear.
Clearfield	Clearfield	1,120	11	31.8	+3.4	61	1	0	22	34	3.14	0.00	1.10	12.5	15	6	9	16	nw.	E. W. Hess.
Coatesville	Chester	380	33	31.0	-2.0	59	1†	4	22	32	2.59	-1.66	0.68	6.7	9	8	14	9	w.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	11	31.8		57	1	5	22	27	2.90		1.37	5.8	9	12	7	12	nw.	Wm. A. Rorer.
Emporium	Cameron	1,050	33	29.2	+0.1	56	18	-5	22	38	1.90	-1.43	0.56	1.8	11	5	10	16	w.	T. B. Lloyd.
Ephrata	Lancaster	380	20	33.6	+2.3	59	18	8	22	28	2.57	-0.94	1.05	7.0	6	13	5	13	n.	E. K. Hershey.
Everett	Bedford	1,080	23								3.65	+0.64	0.83	8.2	12				n.	J. E. Thropp Co.
Freeland	Luzerne	1,873	6	25.4		52	1	-3	22†	27	4.14		1.36	10.5	17	11	9	11	nw.	Theo. Reichmann.
George School	Bucks	190	14	31.8	-0.5	61	2	8	22	31	2.16	-1.63	0.72	8.0	6	16	8	7	w.	Prof. N. W. Swayne.
Gettysburg	Adams	600	47	34.5	+2.8	66	1	6	22	38	3.43	+0.11	1.00	13.5	9	9	9	13	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	17	28.8	+0.3	56	1	5	22	29	5.05	+0.86	1.95	11.0	8	11	4	16	w.	Capt. J. G. Johnson.
Hamburg	Berks	380	28	30.8	-1.2	58	18	9	30	33	2.97	-0.91	1.40	7.0	7	15	11	5	w.	State Sanatorium.
Hauover	York	600	17	34.8	+1.0	63	1	8	22	28	2.07	-1.37	0.84	6.0	8	12	9	10	w.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	51	33.6	+0.8	59	18	9	22	32	2.60	-0.05	1.04	5.0	9	8	8	15	nw.	U. S. Weather Bureau.
Huntingdon	Huntingdon	650	33	32.8	+1.3	63	1	3	22	39	2.23	-0.88	0.54	5.0	11	6	6	19	w.	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	1	31.6*		53*	1	5*	30	32*	3.44		1.20	4.5	11	11	5	15		C. B. McCullough.
Kennett Square	Chester	340	49																	W. P. Mercer.
Lancaster	Lancaster	255	33	33.4	0.0	60	1	7	22	34	1.83	-1.60	0.55	7.0	7	14	8	9	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	23	27.4	0.0	58	1	-4	26	28				6.0		9	4	18		C. P. Darling.
Lebanon	Lebanon	469	80	32.4	+0.5	61	1	7	22	30	3.10	-0.51	1.23	5.8	10	14	13	4	w.	S. B. Benzing.
Lewisburg	Union	450	46	31.4	+2.4	58	1	6	22	27	2.72	-0.54	0.76	4.2	11	7	9	15	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	33																	Prof. J. A. Robb.
Lykens	Dauphin	680	6	30.9		60	1	4	22	32	3.87		1.30	6.5	12	11	9	11	nw.	Susquehanna Collieries Co.
Marcus Hook	Delaware	50	1	34.0		62	1	10	22	33	1.79		0.60	7.0	8	11	10	10	nw.	Gen. Chemical Co.
Mauch Chunk	Carbon	600	31	30.3	-0.2	60	1	5	22	29	4.06	-0.22	1.65	8.0	10	11	11	9	w.	R. K. Wintermute.
Mifflintown	Juniata	445	17	32.7	+2.5	60	1	6	22	28	2.92	-0.17	1.02	5.9	11	5	5	21	nw.	Wellington Smith.
Montrose	Susquehanna	1,658	18	24.2	-1.4	53	1†	-6	22	34	1.63	-1.02	0.43	10.0	8	9	4	18	w.	Silas Jagger.
Mount Pocono	Monroe	1,720	19																	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	9	28.0		58	1	2	22†	26	2.69		0.83	2.9	9	5	13	13		A. H. Boatman.
Narberth	Montgomery	300	2	33.0		60	1†	8	22	28	2.74		0.68	6.3	9	10	4	17	nw.	Charles Decker.
Neshaminy Falls†	Bucks	60	32	31.0		62	1	7	22	40	1.85		0.56	5.0	10	16	6	9	n.	North Springfield Water Co
Palmerton	Carbon	398	4	30.8		58	18	7	22	32	2.36		1.30	4.8	8	20	7	4	sw.	F. G. Breyer.
Philadelphia (a)	Philadelphia	117	50	35.6	-0.1	60	1	12	22	34	2.10	-0.94	0.84	5.9	8	10	7	14	nw.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	5	34.4		61	1†	11	22	32	2.64		0.78	4.5	8				w.	Commandant, Navy Yard.
Phoenixville	Chester	100	10	31.9		59	2	8	22	27	1.67		0.59		7	18	12	1	nw.	North Springfield Water Co
Quakertown	Bucks	496	36	30.5	-0.6	57	1†	6	22	30	2.42	-1.11	0.48	7.2	10	10	11	11	w.	John E. Benner.
Reading	Berks	325	51	33.4	+1.2	60	18	9	22	31	2.17	-1.15	0.87	4.1	9	7	10	14	nw.	U. S. Weather Bureau.
Sadsburyville	Chester	649	10	33.0		60	1	7	22	26	2.26		0.72	8.5	8	6	13	12	w.	S. A. Clarke.
Scranton	Lackawanna	805	26	29.6	-0.2	58	18	3	22	31	1.83	-0.78	0.54	3.7	11	3	12	16	sw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	31	32.1	+0.7	59	18	6	22	33	2.81	-0.39	0.61	3.2	10	8	17	6	sw.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	25	34.1		60	2	10	22	24	2.25	-1.61	0.62	6.0	9	10	13	8	nw.	W. S. Guiles.
State College	Center	1,217	36	29.8	+0.2	57	1	0	22	30	2.58	-0.16	0.68	6.3	9	4	16	11	w.	Prof. Wm. Frear.
Stroudsburg	Monroe	500	9			58†	1	5†	30		2.70		0.78	2.0	11					H. Q. Snyder.
Towanda	Bradford	754	26	28.0	-0.6	54	1†	2	26	31	1.74	-0.67	0.55	5.0	10	5	6	20	nw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	55	26.7	-1.5	56	1	-6	30	30	1.78	-0.81	0.64	3.7	7	9	7	15	w.	George W. Hill.
West Chester	Chester	455	87	32.8	-0.2	60	1	7	22	28	2.12	-1.89	0.50	7.3	10	11	14	6	nw.	Arthur M. Hay.
Williamsport	Lycoming	521	34	31.4	+0.9	57	18	6	22	26	2.54	-0.50	0.89	3.4	12	10	3	18	s.	Jacob April.
York	York	400	33	34.4	+1.6	64	1	8	22	35	2.11	-1.03	0.52	8.0	9	13	11	7	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam†	Beaver	700	28	35.2		63	17	8	22	30	2.43	-0.31	0.90	6.4	13	5	4	22	sw.	U. S. Engineer.
Bradford	McKean	1,427	6	27.4		53	2†	-9	22	36	2.25		0.62	10.8	15	4	13	14	w.	City Engineer.
Bradys Bend	Armstrong	930	3	30.0		61	18	0	22	34	2.59		0.78	7.3	14	5	5	21		Edward R. Dewey.
Brookville	Jefferson	1,173	30	25.4		58	1	-5	22	37	3.16	+0.31	1.50	8.0	9	13	13	5		John Fawcett.
Claysville	Washington	1,150	17	34.0	+2.1	63	17	7	22	28	3.72	+0.70	1.06	11.6	12	13	5	13	n.	J. L. Melvin.
Corry	Erie	1,400	9	28.6		58	1	1	30	32	2.56		0.40	11.6	18	5	5	18		Nevin R. Dickson.
Derry	Westmoreland	1,172	24	32.0	+0.3	63	17	2	22	32	2.76	-0.58	0.76	9.8	11	9	5	17	w.	Miss N. Dixie Wineman.
Ebensburg	Cambria	2,000	3	29.4		57	18	-6	22	30	2.12		0.65	6.0	8	9	8	14	w.	D. H. Jones.
Elk Lick	Somerset	2,200	4	31.7		59	1	0	22	35	2.74		0.75	15.0	10	3	8	20	w.	J. D. Miller.
Franklin	Venango	1,000	48	30.4	+1.2	60	16	4	22	31	2.20	-1.14	0.48	4.3	13				nw.	F. E. Dixon.
Greensburg	Westmoreland	1,150	13	33.9	+2.3	62	17	4	22	27	3.02	-0.16	0.76	13.4	14	4	9	18	n.	Westmoreland Water Co.
Greenville	Mercer	950	26	30.4																

Day of month.

Continued on page 48.

Daily Precipitation for December, 1921.—Continued from page 47.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Davis Isl. Dam	Ohio	T.	.13	.30	.03	.01	T.				T.	.17	.26	.02	T.	T.	T.	.33			.01	T.	.22	.94	.18	.01	T.			.01		2.62	
Derry	Conemaugh	.10	.04	.42	.08							.19	.30	.05				.19					.58	.76	T.		.05					2.76	
Ebensburg	Conemaugh	.28		.04	.05								.46					.26					.34	.65	.04							2.12	
Edinboro	Allegheny	.01	.38	.01	.17	.07						.22	.08	.01	.01			.31	.41			.03	T.	.32	T.				.04		.24	2.31	
Elk Lick	Youghiogheny	.45	.04	.32	.02	T.	T.		T.			.10	.28	.12	T.		T.	.20			T.	T.	.40	.75	T.				T.	T.	T.	2.74	
Falls Creek	Allegheny	.27	.04	.09	.16	.08						.16	.11	.04	*			.56			.03		.14	.60		.10			.06		T.	2.44	
Franklin	Allegheny		.24		.03	.24	.02					.15	.08	.02	.03			.10	.48				.05	.46	.30				T.			2.20	
Freeport	Allegheny		.31	.23	.05	.12	T.					.21		.29				.43			.03		.16	.11	.22				T.			3.16	
Greensburg	Youghiogheny	.20	.05	.56	.08	.03	T.			T.	T.	.17	.35	.02	.02			.05	.07			T.		.65	.76	T.	T.	.01		T.		T.	3.02
Greenville	Beaver	.28			.28						T.	.17		.60				.16			.01		.61	.68							.11	2.30	
Grove City	Beaver	T.	.22	T.	T.	.11	.09	T.				.48	T.					.40	.88			.05	.64	.01	.12	T.	T.					2.38	
Herr's Isl. Dam	Ohio	T.	.25	.30	.33	.01	T.				T.	.17	.38	.04	T.	T.	T.	.14	.33			T.	T.	.25	.88	.12	T.	T.		T.	T.	3.20	
Indiana	Conemaugh	.16		.38	.12	.20							.45					.05					.70		.83		.50					3.39	
Irwin	Youghiogheny	.20	.04	.45	.05	T.						.13	.30	.05	T.			.15					.50	.90	.03		T.					2.80	
Johnstown	Conemaugh	.30	.02	.37	.18	.03	T.		T.		.02	.22	.34	.08	T.			.10	.20			.05		.75	.38	.05			.02		.01	3.10	
Ketner	Allegheny	.18		.04	.03							.03	.07					.15	.33				.13	.55		.02	.02		.02		.07	1.64	
Linesville	Beaver	.02	.03	.31		.04	.28	.08				.18	.23	.04	T.	T.	T.	.10	.37			T.	T.	.03	.21	.14			T.	.05		2.11	
Lock No. 4	Monongahela	T.	.28	.54	.08	.02	.03					.17	.35	.03	.05			.01	.07			T.	T.	.24	.134	.20			T.	T.		3.41	
Lycippus	Conemaugh	.12		.65	.12	T.						.17	.64	.06	T.								.85	.01	T.		.02					2.64	
New Castle	Beaver	.06	.23	.06	.04	.03					.22	.27	.04	T.		.04	.53					T.	.07	.52	.17						.05	2.33	
Newell	Monongahela	.05	.21	.48		.02						.15	.32	.06				.04					.28	1.48	.05				T.	T.		3.14	
North Shenango	Beaver					.61	.05					.35		.17	.14								.14	.44							.05	1.81	
Parkers Landing	Allegheny		.28	.02	.04	.40	T.					.25	.20	.03	T.	T.	.20	.50			.05	T.	.14	.38	.15	T.	.03		.05	T.		2.72	
Pennline	Beaver	.04	.03	.25		.04	.12	.05				.18	.23	.04	T.	T.	T.	.10	.37	T.		T.	.02	.04	.26	.07	T.	T.	T.	.02		1.86	
Pittsburgh	Ohio	T.	.09		.35	T.					T.	.06	.14	.18	.04	T.	T.	.24	.04			T.	T.	.65	.57	T.	T.	T.	T.	T.		2.36	
Ridgway	Allegheny											.02	.16	.34	.06	.02		.01	.16			.01		.23	.87	.18	T.	.06				1.44	
Saltsburg	Conemaugh		.22	.26	.14	.17	.04				.02	.16	.34	.06	.02			.01	.16			.01		.23	.87	.18	T.	.06				2.95	
Saegertown	Allegheny	.45		.16	.20							.34	.10					.29	.05			T.		.30							.05	1.94	
Sharon	Beaver		.12									.17		.30	.05	T.			.28				T.	.1	.56				T.	T.		1.48	
Somerset	Youghiogheny	.42	.07	.70	.60	.32						.22	.72	.10				.20		.18		.05		.26		.39						4.73	
Springdale	Allegheny																																
Summit	Beaver	T.	.20	.30		T.	.14	.09				.22	.68	T.		T.	T.	.22				.05	T.	T.	.14	.38	.15	T.	.03		.05	T.	2.18
Tionesta	Allegheny	.41		.03	.04	.26						.30	.03	.04				.80						.53	.02			.02					2.41
Turnerville	Beaver												.15	.35	.14	.03	T.	.03						1.18	.125	T.				.02		3.92	
Uniontown	Monongahela	.30	.03	.33	.09	.02						.21	.34					.04	.32					.04	.12	.08						2.34	
Vandergrift	Conemaugh	.23		.28	.48	.20						.03	.12	.04				.16	.72			.14		.28		.12						2.50	
Warren	Allegheny	.02	.28	.08		.18	.19					.10	.05	.30	.14			.39	.03				.04	1.19	.48	.03			.01		.10	3.56	
Washington	Ohio	.02	.23		.46	.04	.05					.13	.20	T.				.08	.22		.04											1.56	
Waynesburg	Monongahela											.15	.27	.03																	.39	1.56	
Westford	Beaver		.28		.05	.17						.13	.20	T.				.08	.22		.04											1.56	
West Newton	Youghiogheny		.31	.39	.08	T.						.15	.27	.03										.31	1.14	.14				T.		2.93	
Lake Drainage.																																	
Erie**	Lake Erie	.23	T.			.02	T.	T.	T.	T.	.06	.03	.02	.01	T.	.24	.17	.04				T.	T.	.07	.42	T.	T.	T.		.02		T.	1.33
West Bingham	Genesee	.32				.10				T.			.10					T.	.25			.10		T.		.10				.05		T.	1.02

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours; * Precipitation included in the next following measurement. T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

Daily Temperatures for December, 1921.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.		
Altoona.....	Maximum...	60	51	52	34	31	33	35	33	32	43	43	38	32	30	32	34	54	52	35	42	39	20	32	39	36	27	30	35	36	29	45	37.5	
	Minimum...	37	41	34	26	26	24	29	28	28	29	35	31	27	24	18	23	31	31	26	20	17	0	17	30	24	18	24	13	20	8	16	24.4	
Brookville.....	Maximum...	58	55	39	32	32	32	34	33	34	38	41	36	37	32	29	57	56	35	34	45	35	23	36	36	26	27	30	37	33	28	40	36.8	
	Minimum...	31	38	30	19	20	23	28	27	27	28	28	28	21	16	9	23	35	27	18	18	-2	-5	22	25	15	15	22	23	-1	-2	15	20.0	
Catawissa.....	Maximum...	60	56	47	39	37	41	41	33	40	48	49	41	37	37	33	42	59	45	41	40	43	24	33	35	33	29	34	40	38	35	40	40.3	
	Minimum...	31	36	39	31	15	26	28	29	21	29	36	30	28	23	18	14	30	34	26	19	10	6	16	27	25	10	19	11	28	7	13	23.1	
Chambersburg.....	Maximum...	62	47	55	36	34	40	42	40	40	43	50	46	36	31	35	37	52	58	40	43	44	26	33	35	39	32	45	36	39	30	48	41.1	
	Minimum...	31	36	35	30	19	29	30	28	30	24	35	34	30	28	21	21	28	37	28	22	26	5	19	31	30	17	24	16	26	13	15	25.7	
Emporium.....	Maximum...	55	54	47	36	34	34	35	34	35	41	41	39	34	32	30	36	52	56	34	45	43	20	32	36	30	24	32	35	36	25	42	37.4	
	Minimum...	33	37	31	25	17	25	29	28	27	30	31	30	28	18	9	24	33	30	21	13	5	-5	18	28	17	14	21	12	10	-1	9	20.9	
Erie.....	Maximum...	60	58	40	38	35	35	35	34	37	40	42	38	32	29	28	44	58	41	34	44	38	26	36	33	24	29	32	37	37	30	40	37.5	
	Minimum...	46	39	34	32	29	30	33	30	32	29	36	32	28	22	20	26	41	28	27	26	13	14	26	24	19	19	25	26	15	14	28	27.2	
Grove City.....	Maximum...	57	55	53	46	35	35	36	33	33	38	43	40	38	38	34	40	60	58	41	45	40	30	37	39	34	28	30	37	34	30	39	39.7	
	Minimum...	41	49	32	29	26	20	28	29	28	26	32	30	30	18	25	20	35	28	25	21	11	5	21	30	21	14	23	19	12	9	10	24.1	
Harrisburg.....	Maximum...	59	54	52	36	35	39	42	40	38	43	46	45	37	34	30	33	56	59	38	42	42	22	33	37	37	29	41	37	39	28	42	40.2	
	Minimum...	37	42	36	25	24	31	36	33	31	29	37	35	30	27	19	23	32	34	29	27	10	9	22	33	23	19	26	24	18	14	20	26.9	
Holtwood.....	Maximum...	65	59	48	41	38	42	44	44	45	47	50	52	35	32	32	39	58	48	40	44	43	29	34	39	32	32	43	42	42	33	41	42.4	
	Minimum...	34	35	37	32	24	30	32	29	29	25	26	34	31	28	19	18	20	34	33	25	24	8	10	28	30	17	17	19	20	13	15	25.0	
Indiana.....	Maximum...	59	58	54	35	31	34	40	36	33	39	40	41	34	36	30	38	59	57	49	45	29	45	39	38	29	31	39	37	31	43	40.2		
	Minimum...	34	45	33	27	26	23	26	28	29	28	34	31	28	26	19	26	36	30	23	24	19	2	20	35	24	17	27	11	22	8	18	25.5	
Mifflintown.....	Maximum...	60	49	50	38	34	41	38	38	40	45	44	43	35	36	36	34	48	58	40	45	38	25	30	35	36	30	36	44	34	28	40	39.7	
	Minimum...	39	39	38	30	18	29	34	31	30	25	38	34	30	28	15	22	28	36	31	20	20	6	19	29	28	15	19	16	28	7	15	25.7	
Philadelphia.....	Maximum...	60	60	56	39	37	41	43	40	46	48	47	40	36	34	35	57	58	42	44	47	25	35	45	38	32	41	38	42	28	44	42.5		
	Minimum...	42	41	39	31	29	33	34	33	25	30	39	38	30	26	21	21	34	41	34	30	13	12	21	35	24	19	29	28	18	15	22	28.6	
Pittsburgh.....	Maximum...	58	59	43	34	33	36	38	36	35	39	45	40	34	34	35	44	63	39	38	48	41	33	47	38	28	32	32	39	40	34	44	40.0	
	Minimum...	46	43	33	30	28	29	29	32	32	19	35	29	24	25	33	39	29	30	30	13	9	33	28	21	22	24	23	17	17	30	28.1		
Reading.....	Maximum...	59	59	51	35	34	39	41	39	45	46	44	37	34	31	32	58	60	40	44	41	24	34	38	36	30	38	39	25	42	40	40.5		
	Minimum...	37	43	35	29	25	32	33	32	26	30	38	35	27	25	20	21	32	36	30	24	10	9	20	34	20	16	28	25	15	12	18	26.4	
Scranton.....	Maximum...	55	55	50	36	34	37	36	31	38	42	44	37	32	30	24	36	56	58	36	40	39	19	33	37	28	26	35	33	35	21	38	37	
	Minimum...	36	44	35	29	24	27	27	20	17	31	34	31	23	18	15	12	31	31	29	23	8	3	19	28	12	10	21	21	10	5	12	22.1	
Somerset.....	Maximum...	50	53	53	35	28	32	35	36	30	38	35	37	31	32	30	35	55	52	36	50	40	28	47	53	45	81	35	43	38	32	48	39.5	
	Minimum...	35	40	29	28	22	22	20	25	24	32	26	24	25	18	24	32	58	25	25	12	0	12	20	20	13	21	14	16	9	21	22.0		
State College.....	Maximum...	57	53	52	33	32	33	34	33	33	41	40	38	31	34	29	34	52	54	34	40	38	21	30	32	32	24	30	34	35	27	42	36.5	
	Minimum...	37	45	33	25	20	25	29	28	27	26	33	30	26	24	14	18	25	51	31	27	18	8	0	16	26	19	14	21	18	22	5	19	23.0
Towanda.....	Maximum...	54	54	53	36	35	36	35	34	35	43	45	36	32	27	25	35	51	54	34	40	37	17	32	34	26	22	34	35	34	24	38	36.4	
	Minimum...	29	35	34	28	22	25	24	20	14	25	28	30	25	21	14	7	32	32	29	19	6	6	14	26	12	2	10	9	9	5	9	19.7	
Uniontown.....	Maximum...	63	65	56	36	32	38	41	37	35	42	48	44	35	35	36	47	65	61	35	51	45	28	47	52	38	33	35	39	40	34	46	43.2	
	Minimum...	42	51	35	29	28	30	25	29	30	30	36	33	30	29	25	31	46	32	29	25	23	10	28	37	26	25	28	18	23	15	22	29.0	
Warren.....	Maximum...	56	55	45	42	30	30	30	30	32	37	38	38	32	32	26	35	52	54	30	47	40	22	32	35	23	28	38	34	25	20	30	35.4	
	Minimum...	36	38	32	25	20	25	28	26	28	26	34	30	28	20	8	25	35	30	21	20	0	-4	20	22	16	23	22	6	8	-2	20	21.5	
Wellsboro.....	Maximum...	56	50	48	35	30	33	30	30	32	38	39	35	30	26	25	30	50	53	30	40	35	20	30	32	25	25	30	33	34	23	35	34.3	
	Minimum...	38	38	30	25	18	22	20	25	24	26	29	30	25	19	15	15	26	29	27	23	5	4	15	23	5	0	13	7	9	-6	12	19.1	
Williamsport.....	Maximum...	53	52	51	40	33	38	39	37	36	46	43	42	37	34	30	33	46	57	39	40	38	21	28	34	34	26	35	35	36	26	41	38.1	
	Minimum...	35	42	39	30	22	28	30	29	26	33	37	32	28	27	18	18	31	36	29	20	17	6	14	28	25	13	21	12	20	7	15	24.8	

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

UNIVERSITY OF ILLINOIS LIBRARY
FEB 11 1922

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXV.

ANNUAL SUMMARY, 1921.

No. 13.

GENERAL SUMMARY.

This year with a mean temperature of 53.1° was the warmest in the history of the State Weather Service beginning in 1888. The previous warmest year was 1913 with a mean of 51.7°. The coldest year on record was 1917 with a mean of 47.3°. It will be seen that the range of annual mean temperatures is not large and therefore the increase of 1.4° over the previous warmest year has great significance. Each month except May and August had a temperature excess, the greatest excess being that of March with 10.8°. It was the earliest spring we have known and vegetation started and fruit trees blossomed from three to four weeks ahead of the usual time. A short cold period in April, when the trees were in full bloom, killed about 80% of the fruit crop in the State. The outlook was so hopeless that fruit raisers did not spray their trees and the result was a generally inferior quality in the fruit that survived.

Nine months of the year were deficient in precipitation, but there was such a large excess in the three remaining months that for the year as a whole there was a slight excess. The annual mean was 41.80 inches, or 0.12 inch above the normal. The vital part of the year, the growing season, was hot and dry, and was generally more or less unfavorable for all growing crops except the winter grains, which matured before the drought reached its worst. Of the remaining crops, corn was least affected. When it was large enough to shade the ground well, and was beginning to suffer for want of moisture, timely rains over most of the State revived it. The last cultivation, together with the shading of the ground, conserved the moisture, and a large crop developed and matured in good condition. Truck crops and vegetables suffered most from the drought. The supply was short and the quality generally inferior. The early potato crop was the smallest for many years. The late potatoes were revived by September rains and the outlook was encouraging for a time, but a long dry period followed and the ground caked hard in many places. The truck crop that seemed to suffer least was tomatoes. They were fairly plentiful and of good quality. Celery and all root crops were poor or only fair. Late cabbages were fair to good. The hay crop was short, but was harvested under generally favorable conditions and with small losses. The September rains put the ground in good condition for seeding the winter grains, and they were little harmed by the shortage of rain in October. The mild temperatures and heavy rains in November caused a heavy growth, and the grains began the winter in excellent condition. The weather generally was favorable for outdoor work and a large road building program was carried out by the State.

COMPARATIVE ANNUAL DATA FOR THE STATE.

Year.	Temperature.		Precipitation.		Year.	Temperature.		Precipitation.	
	Highest.	Lowest.	Greatest total.	Least total.		Highest.	Lowest.	Greatest total.	Least total.
1888.....	100	-31	.....	.....	1907.....	98	-23	64.05	31.79
1889.....	96	-27	.....	.....	1908.....	104	-29	50.26	26.72
1890.....	101	-18	.....	.....	1909.....	100	-19	48.79	27.91
1891.....	100	-14	64.00	32.21	1910.....	99	-22	51.45	31.08
1892.....	103	-23	54.63	32.07	1911.....	105	-18	67.61	29.25
1893.....	102	-25	58.56	30.62	1912.....	100	-35	60.95	33.08
1894.....	103	-28	57.43	28.17	1913.....	102	-9	56.06	32.48
1895.....	104	-26	40.80	21.17	1914.....	101	-28	54.33	28.83
1896.....	101	-21	53.52	32.29	1915.....	99	-26	61.96	33.40
1897.....	103	-25	55.16	19.83	1916.....	103	-31	58.50	31.05
1898.....	107	-16	56.95	34.07	1917.....	105	-29	62.68	23.56
1899.....	101	-39	51.13	28.36	1918.....	108	-34	60.60	29.97
1900.....	104	-23	55.68	25.73	1919.....	104	-23	58.30	31.55
1901.....	107	-22	56.83	29.81	1920.....	99	-21	58.70	26.27
1902.....	100	-24	65.05	29.79	1921.....	104	-15	62.91	30.08
1903.....	99	-17	57.16	35.90					
1904.....	99	-42	56.72	31.05					
1905.....	99	-25	59.38	33.53					
1906.....	99	-21	61.56	32.55					

MONTHLY STATE DATA FOR 1922.

Month.	Temperature.				Precipitation.			
	Mean.	Depart- ure from normal.	Highest.	Lowest.	Average.	Depart- ure from normal.	Greatest.	Least.
January.....	31.0	+3.1	63	-13	2.58	-0.66	5.23	0.89
February.....	32.8	+5.5	76	-15	2.59	-0.26	4.79	1.41
March.....	48.0	+10.8	88	7	3.33	-0.19	6.15	1.05
April.....	55.3	+6.7	96	10	3.11	-0.23	5.06	1.12
May.....	59.8	-0.6	93	22	3.93	+0.26	8.17	0.97
June.....	70.6	+2.7	101	26	3.12	-1.18	9.86	0.70
July.....	75.9	+3.9	104	45	4.13	-0.03	9.19	1.23
August.....	68.4	-2.0	97	35	3.83	-0.32	6.68	1.81
September.....	68.9	+5.1	98	31	4.68	+1.35	11.48	1.47
October.....	52.6	+0.1	84	18	2.16	-1.21	6.55	0.40
November.....	42.3	+1.3	80	3	5.75	+3.20	9.14	3.20
December.....	31.6	+0.8	66	-13	2.59	-0.61	6.25	0.91
Year.....	53.1	+3.1	104	-15	41.80	+0.12	62.91	30.08

KILLING FROSTS OR FREEZING TEMPERATURE.

Stations.	Last in spring.	First in autumn.	Stations.	Last in spring.	First in autumn.
Altoona.....	Apr. 18	Oct. 26	Lewisburg.....	Apr. 12	Oct. 26
Arendtsville.....	do. 12	do. 13	Lock Haven.....	May 17	Oct. 13
Beaver Dam.....	May 16	do. 14	Lycippus.....	Apr. 19	Oct. 13
Bethlehem.....	Apr. 12	do. 10	Lykens.....	May 17	do. 13
Bloersville.....	do. 11	.....	Mauch Chunk.....	Apr. 12	do. 24
Bradford.....	May 17	Oct. 13	Mifflintown.....	do. 20	do. 26
Brady's Bend.....	do. 17	do. 9	Milford.....	.....	.....
Brookville.....	do. 17	do. 9	Montrose.....	Apr. 20	Oct. 9
Bustleton.....	Apr. 12	do. 27	Mount Pocono.....	do. 19	.....
Carlisle.....	do. 19	do. 26	Muncy Valley.....	May 17	Oct. 13
Catawissa.....	do. 12	do. 13	Narberth.....	Apr. 12	do. 27
Center Hall.....	do. 28	do. 13	Neshaminy.....	do. 20	do. 24
Claysville.....	May 17	do. 13	New Castle.....	May 17	do. 9
Clearfield.....	do. 17	do. 13	Palmerton.....	Apr. 12	do. 26
Coatesville.....	Apr. 12	do. 26	Philadelphia (a).....	do. 11	Nov. 6
Colebrook.....	do. 12	do. 27	Phoenixville.....	do. 12	Oct. 13
Derry.....	May 17	do. 9	Pittsburgh.....	do. 19	do. 14
Ebensburg.....	June 5	do. 9	Pottsville.....	Mar. 30	do. 14
Edinboro.....	Apr. 19	do. 14	Quakertown.....	Apr. 20	do. 13
Elk Lick.....	May 17	do. 13	Reading.....	do. 11	do. 27
Emporium.....	do. 17	do. 13	Sadsburyville.....	do. 12	do. 13
Erie.....	Apr. 18	Nov. 8	Saegertown.....	.....	do. 13
Franklin.....	May 17	Oct. 13	Scranton.....	Apr. 13	do. 26
George School.....	Apr. 12	do. 14	Selinsgrove.....	do. 12	do. 14
Gottysburg.....	do. 12	do. 26	Sharon.....	May 17	do. 13
Gordon.....	May 17	do. 14	Shawmont.....	Apr. 12	do. 26
Greensburg.....	Apr. 19	do. 13	Somerset.....	May 17	do. 12
Grove City.....	May 16	do. 13	State College.....	Apr. 19	do. 13
Hamburg.....	Apr. 11	do. 14	Towanda.....	May 17	do. 14
Hanover.....	do. 12	do. 13	Uniontown.....	Apr. 19	do. 14
Harrisburg.....	do. 11	Nov. 6	Vandergrift.....	May 18	do. 13
Huntingdon.....	do. 20	Oct. 13	Warren.....	do. 17	do. 13
Indiana.....	do. 19	do. 13	Welket.....	Apr. 19	do. 25
Irwin.....	do. 11	.....	Wellsboro.....	June 5	do. 13
Johnstown.....	do. 19	Oct. 14	West Bingham.....	do. 6	do. 9
Kennett Square.....	do. 12	do. 26	West Chester.....	Apr. 12	do. 26
Lancaster.....	do. 20	do. 14	Williamsport.....	do. 12	do. 26
Lawrenceville.....	May 17	do. 10	York.....	do. 12	do. 26
Lebanon.....	Apr. 11	do. 26			

Climatological Data for the Year 1921.

STATION.	Counties.	Elevation, feet.	Temperature (degrees Fahrenheit).						Precipitation (inches).						Total snowfall (unmelted).	Number days with .01 or more.	Sky.			Prevailing direction of wind.
			Length of record, years.	Annual mean.	Highest.	Date.	Lowest.	Date.	Length of record, years.	Total for the year.	Greatest monthly.	Month.	Least monthly.	Month.			Number clear days.	Number partly cloudy days.	Number cloudy days.	
Atlantic Drainage.																				
Altoona	Blair	1,615	25	51.9	92	July 8	-2	Jan. 19	34	44.10	7.78	Nov	1.50	June	47.0	154	172	100	93	w.
Arendtsville	Adams	700	4		94	June 27†			4											sw.
Bethlehem	Northampton	295	22	54.0	104	July 4	-2	Dec. 22	37	44.38	6.11	July	1.79	Oct	29.5	81				sw.
Carlisle	Cumberland	467	55	55.1	100	do. 4	3	Jan. 19	33	37.70	6.68	May	0.70	June	36.0	119	185	54	126	ne.
Catawissa	Columbia	520	25	53.6	101	June 27	-4	do. 19†	25	43.24	5.99	Nov	2.37	Jan.	26.9	127	200	57	108	
Center Hall	Center	1,272	26		94	July 4	-6	do. 19	26	36.73	6.42	do.	1.22	Dec.	39.4	107	206	85	74	
Clearfield	Clearfield	1,120	12	53.4	99	do. 5	-8	Feb. 21	12	60.88	11.48	Sept.	1.59	Oct	53.0	152	170	102	93	nw.
Coatesville	Chester	380	34	54.8	97	June 27†	1	Jan. 19	34	35.11	5.27	Nov	1.05	do.	29.6	114	127	148	90	n.
Colebrook	Lebanon	6	6	53.8	97	do. 27	3	do. 19	12	34.51	4.88	May	1.71	June	29.1	135	184	65	116	w.
Emporium	Cameron	1,050	34				-11	Feb. 21	34						20.9					w.
Freeland	Luzerne	1,633	2	49.6	92	June 22	-3	Jan. 19†	6	54.64	7.46	Nov	2.79	Jan.	55.8	174	124	105	136	sw.
George School	Bucks	190	15	54.1	96	do. 22	2	do. 19	15	34.51	5.19	Aug.	0.53	Oct	18.1	139	179	86	100	w.
Gettysburg	Adams	600	46	56.0	98	July 4†	4	do. 19	48	45.37	8.02	May	0.79	do.	33.7	113	150	110	105	s.
Gordon	Schuylkill	840	18	50.8	93	June 22†	-4	do. 19†	18	46.40	5.91	Nov	1.97	Jan.	39.0	121	202	46	117	w.
Hanover	York	600	18	56.2	97	do. 22†	4	do. 19	18	35.71	5.91	May	0.61	Oct.		115	198	84	83	s.
Harrisburg	Dauphin	361	34	55.0	95	do. 28†	5	do. 19	52	30.08	3.94	do.	1.26	July	26.7	126	106	114	145	w.
Holtwood	Lancaster		2	56.0	99	July 5	5	do. 18	6	30.51	4.79	July	0.91	Dec.	25.5	97	122	129	114	
Huntingdon	Huntingdon	650	34	53.6	95	do. 4†	-8	Feb. 21	34	44.86	7.49	Sept	1.51	Oct.	29.0	145	151	78	136	w.
Jersey Shore	Lycoming	570	2	53.7	98	do. 5†	-4	Jan. 19	2	45.12	6.40	Nov	2.22	do.	32.5	133	206	58	101	
Kennett Square	Chester	340	28		92	June 22†			49											
Lancaster	Lancaster	255	19	55.0	99	July 4†	3	Jan. 19	34	31.54	5.34	Nov	0.92	June		114	196	101	68	w.
Lawrenceville	Tioga	1,000	24		95	do. 8	-8	Feb. 21	24						30.8					
Lebanon	Lebanon	469	33	55.2	98	June 22†	4	Jan. 19	81	40.84	5.60	Nov	1.94	Oct.	24.9	122	166	129	70	w.
Lewisburg	Union	450	46	53.6	97	do. 22†	-7	Feb. 21	47	42.38	5.86	do.	2.13	do.	31.7	124	138	96	131	w.
Lock Haven	Clinton	560	34		100	July 8			35											w.
Lykens	Dauphin	680	7	53.1	98	June 22†	-6	Jan. 19	7	37.14	5.24	Nov	1.69	Jan.	25.5	131	191	83	91	nw.
Marcus Hook	Delaware	50	2	56.5	98	do. 23†	8	do. 19	2	33.66	5.82	Aug.	0.62	Oct.	14.8	100	126	125	114	sw.
Mauch Chunk	Carbon	600	32	52.5	98	do. 27	1	do. 19	32	48.09	5.02	Mar.	2.78	June	34.3	111	149	120	96	w.
Mifflintown	Juniata	445	18	54.0	97	July 11	-5	Feb. 21	18	41.54	7.75	May	1.38	Oct.	28.8	116	158	68	139	nw.
Montrose	Susquehanna	1,658	19	47.7	96	Sept. 2	-8	Jan. 19†	18	38.91	7.22	Nov	1.63	Dec.	45.0	104	207	46	112	s.
Muncy Valley	Sullivan	1,045	10	50.8	94	June 22†	-5	Feb. 21	10	45.83	6.66	July	1.82	Feb.	19.9	117	161	91	113	
Narberth	Montgomery	300	2	55.0	94	do. 22†	3	Jan. 19	2	42.53	5.57	do.	0.75	Oct.	20.6	128	131	91	143	nw.
Neshaminy Falls	Bucks	60	20	53.8	97	do. 24	1	do. 19	33	32.71	6.62	Aug.	1.04	do.	20.5	118	192	47	126	sw.
Palmerton	Carbon	398	3	52.6	96	July 22†	0	do. 19	5	41.85	5.74	July	2.13	do.	30.2	114	169	142	54	sw.
Philadelphia (a)	Philadelphia	117	50	57.0	96	do. 4	7	do. 19	50	35.45	6.01	Aug.	0.40	do.	16.8	119	105	111	149	nw.
Philadelphia (d)	Philadelphia	12	6	56.2	95	June 24†	8	do. 19	6	38.92	6.17	July	0.93	do.	16.2	129				
Phoenixville	Chester	100	11	54.9	98	do. 22	0	Feb. 1	11							232	100	33	nw.	
Quakertown	Bucks	496	35	52.6	99	do. 22	0	do. 21	37	39.03	6.23	July	1.53	Oct.	26.7	121	144	120	101	nw.
Reading	Berks	325	44	55.2	97	July 4	5	Jan. 19	52	37.96	5.87	Nov	1.06	June	24.5	120	125	93	147	se.
Sadsburyville	Chester	649	6	55.6	96	June 22†	4	do. 19	11	35.72	5.44	do.	1.29	Oct.	26.8	117	132	130	103	w.
Scranton	Lackawanna	805	26	52.3	96	July 4	1	do. 19	27	36.68	5.03	do.	1.61	June	27.9	135	102	133	130	sw.
Selinsgrove	Snyder	455	32		95	June 22†			33											
Shawmont	Philadelphia	51	5	56.6	96	July 3†	6	Jan. 19	26	37.41	4.87	July	0.47	Oct.	20.8	103	147	134	84	nw.
State College	Center	1,217	34	50.8	90	do. 4	-4	do. 19	37	40.87	5.95	Nov	1.41	do.	34.1	140	110	163	92	w.
Towanda	Bradford	754	27	50.6	95	Sept. 2	-9	Feb. 21	27	34.68	5.47	do.	1.64	Jan.	36.4	148	127	106	132	e.
Wellsboro	Tioga	1,419	42	47.8	94	July 5	-14	do. 21	57	34.90	5.24	do.	1.17	do.	42.0	110	208	44	113	w.
West Chester	Chester	455	67	54.8	96	June 22	7	Dec. 22	89	32.11	4.36	do.	0.69	Oct	24.0	112				nw.
Williamsport	Lycoming	521	32	53.6	97	do. 22†	-3	Jan. 19	35	39.90	6.21	do.	1.41	June	29.2	135	162	60	143	se.
York	York	400	22	55.0	96	July 4	3	Feb. 25	34	31.51	4.98	May	0.85	Oct.	24.0	108	178	105	82	n.
Ohio Drainage.																				
Beaver Dam	Beaver	700	8	55.8	98	July 28	8	Dec. 22	29	43.42	7.28	Sept.	2.27	Feb.	21.3	164	103	66	196	sw.
Bradford	McKean	1,427	5	49.8	96	do. 5†	-13	Jan. 19	7	43.39	9.38	do.	1.98	Jan.	38.4	165	114	119	132	sw.
Bradys Bend	Armstrong	930	4	49.8	95	do. 5	-8	Feb. 21	4	44.46	6.59	do.	1.81	Jan.	24.0	153	125	95	142	
Brookville	Jefferson	1,173	11	49.1	96	do. 5	-10	Jan. 26	31	45.13	7.96	do.	1.41	Feb.		111				
Chambersburg	Franklin	631	21	54.1	96	do. 8	-5	Feb. 21	34	45.75	8.48	do.	1.21	Oct.	25.2	129	140	126	99	sw.
Claysville	Washington	1,150	18	55.0	95	June 25†	5	Jan. 13	18	47.13	6.88	do.	2.09	do.	29.6	137	157	85	123	w.
Ebensburg	Cambria	2,000	4		89	July 4	-15	Feb. 21	4	47.75	7.94	Nov	1.86	Feb.	30.0	137	186	84	95	w.
Elk Lick	Somerset	2,200	5	51.1	91	do. 7	-12	do. 21	5	47.35	6.03	Sept.	1.83	Oct.	39.5	139	152	79	134	w.
Franklin	Venango	1,000	28	51.8	98	June 25	-1	Jan. 19	49	43.99	8.39	July	1.57	June	25.1	158				w.
Greensburg	Westmoreland	1,150	4	54.6	94	July 5	2	Feb. 21	14	49.13	6.80	Nov	2.42	May	34.5	162	144	90	131	sw.
Greenville	Mercer	950	26	52.0	99	do. 5	7	Jan. 19†	26	45.19	6.27	July	2.30	Dec.		100	62	132	171	
Grove City	Mercer	1,256	15	52.4	93	do. 5	2	do. 19	15	44.68	6.57	Nov	2.22	Feb.	22.5	137	130	77	158	sw.
Indiana	Indiana	1,350	25	53.8	96	do. 5†	1	Feb. 21	24	50.71	7.03	do.	2.40	Oct.	47.5	130	158	84	123	
Irwin	Westmoreland	884	22		94	do. 4†	1	do. 21	25	44.67	7.52	June	2.05	Feb.						
Johnstown	Cambria	1,184	31	54.3	97	do. 5	3	Jan. 19†	40	47.02	7.19	Nov	2.01	Oct.	36.0	179	110	142	113	sw.
Lycippus	Westmoreland	1,420	29		93	do. 4†	5	Feb. 21†	30	54.71	9.00	Sept.	2.17	Apr.	42.4	121	86	107	172	w.
New Castle	Lawrence	808	39	52.9	97	do. 27	3	do. 21	34	36.83	5.11	Nov	1.59	June		169	163	108	94	sw.
Pittsburgh	Allegheny	842	52	55.4	94	do. 5	9	Jan. 25†	79	38.57	5.33	June	1.66	Apr.	18.9	145	81	89	195	sw.
Saegertown	Crawford	1,116	30		96	do. 5†			30											
Sharon	Mercer	940	9	51.9	92	do. 5†	-2	Jan. 19	10	31.77	4.79	Nov	1.48	Dec.	13.3	120	148	74	143	sw.
Somerset	Somerset	2,280	55	51.8	92	do. 5†	-5	Feb. 21	40	62.91	8.45	Sept.	2.80	Apr.	76.3	152	53	198	114	sw.
Uniontown	Fayette	999	33	55.9	94	do. 8	2	do. 21	33	55.44	8.97	Nov	1.88	Feb.	25.5	143	153	104	108	sw.
Vandergrift	Westmoreland	825	8		95	do. 5	4	do. 21	8	41.67	6.22	Sept.	1.96	Oct.		138	167	127	71	
Warren	Warren	1,180	25	51.3	95	do. 6	-5	Jan. 19	33	43.33	7.23	do.	1.76	Jan.	38.6	144	142	54	169	nw.
Lake Drainage.																				
Erie	Erie	713	49	52.7	93	July 6	4	Jan. 19	49	35.92	5.21	Nov	0.97	May	42.5	141	89	111	165	ne.
West Bingham	Potter	1,171	7				-11	Dec. 30	7						34.5					w.
For the State				53.1	104	July 4	-15	Feb. 21		41.80	11.48	Sept.	0.40	Oct.	30.9	1				

* Incomplete record.

† On other days also.

Letters of alphabet denote number of days missing.

Monthly and Annual Precipitation for the Year 1921, with Departures from the Normal																											
STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.		
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	
DELAWARE BASIN.	Allentown.	2.55		4.22		2.87		3.10		2.82		1.63		5.67		4.42		4.30		1.78		5.12		2.24		41.22	
	Bethlehem.	3.07	-0.54	3.30	-0.20	2.31	-1.37	4.63	+1.47	3.30	-0.44	3.80	-0.44	6.11	+1.74	3.15	-1.15	5.12	+1.70	1.79	-1.44	5.46	+2.41	2.34	-1.17	44.38	+0.57
	Bustleton.	3.21		2.99		2.18		3.03		4.48		2.79		2.72		6.40		2.34		0.49		4.31		2.34			
	Coatesville.	2.66	+1.35	2.58	-1.55	2.63	-1.64	2.98	-0.64	4.14	+0.06	3.62	-0.42	2.09	-2.80	2.96	-1.41	2.52	-1.46	1.05	-2.57	5.27	+2.12	2.59	-1.66	35.11	-13.32
	Doylestown.	2.47	-1.24	4.01	+0.10	2.31	-1.78	3.68	-0.30	4.41	+0.34	2.18	-1.82	3.95	-0.70	3.55	-1.93	2.15	-1.87	0.80	-3.29	3.76	+0.49	2.30	-1.74	35.57	-13.74
	Freeland.	2.79		4.16		4.59		3.34		4.04		4.63		7.31		4.67		3.52		3.99		7.46		4.41		54.64	
	George School.	2.97	+0.12	2.78	-0.29	2.96	-0.37	4.08	+0.44	4.49	+0.95	2.13	-1.03	1.72	-2.10	5.19	+0.81	1.47	-1.51	0.53	-2.72	4.03	+1.47	2.16	-1.63	34.51	-5.86
	Gouldsboro.	1.96		3.02		3.00		4.14		4.66		4.75		4.25		3.44		3.83		4.07		5.31		3.34		45.77	
	Graterford.	2.91		4.72		2.61		2.98		3.05		2.26		1.70		3.91		1.95		0.44		3.65		2.05		32.23	
	Hamburg.			4.34	+0.90	3.00	-1.12	4.03	-0.30	6.84	+2.23	3.39	-0.81	5.09	+0.10	2.82	-2.51	2.52	-1.73	2.36	-1.70	4.50	+1.80	2.97	-0.91		
LANSFORD BASIN.	Hawley.													5.32		1.37		1.75		1.86		4.37					
	Kennett Square.																										
	Lansford.	1.59	-2.06	3.20	+0.08	2.43	-1.05	4.16	+0.49	3.11	-0.11	5.05	+0.87	6.26	+1.82	2.69	-2.51	4.02	+0.18	2.28	-2.30	4.91	+2.82	3.86	-0.08	43.56	-1.85
	Marcus Hook.	2.29		1.65		1.93		2.49		2.02		1.46		5.79		5.82		2.94		0.62		3.45		1.79		33.66	
	Mauch Chunk.	2.83	-1.03	3.84	-0.09	5.02	+0.63	4.83	+0.90	3.58	-0.47	2.78	-1.42	4.86	-0.17	3.01	-1.99	5.06	+2.26	3.23	-0.61	4.99	+1.75	4.06	-0.22	48.09	-0.46
	Millford.																										
	Mount Pocono.	4.08	+0.81	3.54	+0.66	5.86	+2.19	3.09	-1.07	4.61	+0.95	3.20	-1.66	5.95	+1.31	3.03	-1.05										
	Narberth.	3.19		3.06		3.60		4.06		4.61		1.96		5.57		4.47		3.24		0.75		5.28		2.74		42.53	
	Neshaminy Falls.	2.43		2.60		1.93		1.12		4.23		2.39		2.82		6.62		1.53		1.04		4.15		1.85		32.71	
	Palmerton.	2.19		3.31		3.20		4.59		2.98		4.63		5.74		2.75		3.87		2.13		4.10		2.36		41.85	
PHILADELPHIA BASIN.	Philadelphia (a).	2.03	-1.25	4.40	+1.23	2.41	-1.09	1.85	-1.52	3.42	-0.28	2.86	-0.78	4.04	-0.02	6.01	+1.58	2.21	-1.17	0.40	-2.81	3.69	+0.63	2.10	-0.98	35.45	-6.42
	Philadelphia (d).	2.15		4.79		2.38		2.61		4.00		1.79		6.17		5.25		1.71		0.93		4.50		2.64		38.92	
	Phoenixville.	1.47		2.40		1.52		3.21		2.63		2.63		4.66		2.86		3.27		0.83		4.55		1.67			
	Pottstown.	2.49	-1.01	2.93	-0.63	2.08	-1.73	2.95	-0.25	3.32	-1.16	2.55	-1.36	1.98	-3.44	3.88	-0.01	2.33	-0.99	1.45	-1.71	4.03	+0.87	1.90	-1.80	31.89	-13.22
	Pottsville.	1.63	-2.36	3.11	-0.44	4.18	+0.10	4.08	+0.45	5.24	+0.80	3.65	-0.64	6.84	+1.86	3.29	-2.06	4.21	+0.35	2.11	-1.94	5.76	+2.55	4.16	+0.11	48.26	-1.22
	Quakertown.	2.39	-1.11	3.43	-0.34	3.82	-0.12	3.34	+0.15	3.63	-0.44	1.70	-1.99	6.23	+1.50	3.04	-1.16	3.32	-0.37	1.53	-1.88	4.18	+1.10	2.42	-1.11	39.03	-5.53
	Reading.	2.79	-0.77	2.66	-0.93	2.43	-1.19	5.76	+2.44	3.34	-0.28	1.06	-2.41	2.55	-1.74	4.13	-0.06	3.70	+0.05	1.50	-2.00	5.87	+2.75	2.17	-1.15	37.96	-5.29
	Sadsburyville.	2.49		2.33		2.43		2.89		4.41		3.15		3.31		3.91		1.81		1.29		5.44		2.26		35.72	
	Shawmont.	4.50	+1.21	4.11	+0.86	2.67	-0.99	2.72	-0.45	4.10	+0.69	1.14	-2.28	4.87	+0.61	4.21	-0.81	2.25	-1.08	0.47	-3.02	4.12	+1.33	2.25	-1.61	37.41	-5.54
	Stroudsburg.			2.97		2.47		3.98		3.65		2.37				3.40		2.41		1.64		4.55		2.70			
WEST CHESTER BASIN.	West Chester.	2.46	-1.29	3.49	-0.35	1.26	-2.68	3.30	+0.32	3.96	-0.47	3.32	-0.83	1.43	-3.17	2.58	-0.72	3.14	-0.79	0.69	-3.01	4.36	+0.77	2.12	-1.89	32.11	-14.11
	White Haven.	2.44	-0.40	3.18	+0.34	2.67	-0.47	3.80	+0.66	4.63	+0.75	3.89	-0.43	8.09	+3.27	3.62	-0.60	3.44	+0.92	4.07	+0.48	6.20	+3.31	4.08	+0.56	50.11	+8.39
	Altoona.	2.94	+0.41	1.96	-0.17	2.28	-0.49	2.73	-0.05	4.87	+0.90	1.50	-2.37	7.48	+4.26	3.91	+0.60	4.35	+1.58	1.56	-0.88	7.78	+5.97	2.76	+0.39	44.10	+10.15
	Ansonia.	0.89	-1.64	1.60	-0.47	2.83	+0.58	3.22	-0.54	2.88	-0.85	2.15	-1.91	4.13	+1.09	2.89	-0.72	5.21	+1.82	1.75	-1.49	4.81	+3.28	1.28	-0.66	33.56	-1.51
	Austin.							2.00																			
	Bellefonte.	2.94	+0.01	2.07	-0.43	2.08	-1.77			3.90	+0.20	3.50	-1.50	4.11	-0.08	4.37	+0.27	5.88	+2.30	2.25	-0.89	4.55	+2.67	2.06	-0.91		
	Bloersville.	1.82		2.10		2.30		3.88		7.69		4.52		2.45		3.10		4.10		1.77		6.13		2.60		42.46	
	Carlisle.	1.92	-1.22	2.83	-0.10	2.75	-0.81	3.52	+0.19	6.68	+2.84	0.70	-3.21	3.23	-0.56	3.42	-1.34	3.56	-0.12	1.11	-2.21	5.23	+2.15	2.75	-0.19	37.70	-4.58
	Catawissa.	2.37	-1.00	3.30	+0.60	3.74	+0.73	4.83	+0.40	3.41	-0.26	3.28	-0.64	4.01	+0.40	3.83	-0.23	3.06	-0.36	2.46	-0.61	5.99	+3.43	2.96	0.00	43.24	+2.46
	Cedar Run.																										
SUQUHANNA BASIN.	Center Hall.	1.46	-1.20	2.49	+0.14	1.33	-2.00	3.17	+0.02	4.36	+0.69	1.98	-2.11	4.66	+0.69	3.56	-0.41	4.73	+1.74	1.35	-1.73	6.42	+4.41	1.22	-1.53	36.73	-1.29
	Clearfield.	3.17	-1.10	2.20	-0.77	3.97	+0.11	2.80	-0.59	6.16	+1.46	3.93	-1.06	7.83	+4.29	5.47	+0.63	11.48	+8.46	1.59	-1.77	9.14	+7.27	3.14	0.00	60.88	+16.93
	Colebrook.	2.38		2.45		2.53		3.26		4.88		1.71		2.05		2.97		2.80		1.83		4.75		2.90		34.51	
	Driftwood.	1.43		2.10		2.47		6.18		2.20		1.23		4.46		4.99		1.52		6.71		1.80		1.90			
	Emporium.	2.12	-1.48	2.41	-0.64	4.42	+0.68	3.43	+0.08	5.02	+0.58			3.97	-0.47	4.09	+0.12	7.29	+3.87	2.04	-1.25	6.01	+3.35	1.90	-1.43		
	Ephrata.													1.90	-2.48	3.74	-1.16	1.63	-1.84	1.57	-1.60	3.33	+3.00				
	Everett.	1.26	-1.88	2.02	-0.22	1.45	-2.01																				

Monthly and Annual Precipitation for the Year 1921, with Departures from the Normal.—Continued.

STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
Derry.....	4.64	+0.62	2.57	-0.44	4.53	+0.37	2.93	-0.81	2.56	-0.86	5.97	+1.24	4.27	-0.51	3.58	-0.42	5.60	+2.78	2.89	-0.32	7.29	+4.85	2.76	-0.58	49.64	+5.92
Ebensburg.....	3.71	.....	1.86	.....	3.23	.....	2.45	.....	4.92	.....	2.37	.....	5.83	.....	4.35	.....	6.43	.....	1.94	.....	7.94	.....	2.12	.....	47.75	.....
Edinboro.....	2.27	.....	2.28	.....	5.59	.....	4.97	.....	2.34	.....	3.13	.....	3.60	.....	3.31	.....	4.68	.....	5.15	.....	7.53	.....	2.31	.....	47.16	.....
Elk Lick.....	2.81	.....	2.83	.....	2.54	.....	2.06	.....	5.66	.....	4.88	.....	4.51	.....	5.86	.....	6.03	.....	1.83	.....	5.60	.....	2.74	.....	47.35	.....
Falls Creek.....	2.61	.....	1.75	.....	4.76	.....	3.16	.....	3.08	.....	3.67	.....	4.51	.....	4.43	.....	7.07	.....	2.29	.....	6.30	.....	2.44	.....	46.07	.....
Franklin.....	2.78	-0.91	2.48	-0.47	4.27	+0.79	3.86	+0.88	2.25	-1.21	1.57	-2.98	8.39	+3.77	4.38	+0.11	4.87	+1.32	2.29	-0.82	5.15	+2.14	2.20	-1.14	43.99	+1.48
Freeport.....	3.36	-0.56	2.84	-0.38	4.09	+0.41	3.74	+0.41	2.62	-1.23	4.20	-0.03	2.43	-1.79	4.41	+0.76	5.75	+2.88	2.08	-0.74	6.21	+3.36	3.16	-0.26	44.89	+2.83
Greensboro.....	3.08	-0.44	2.42	-0.62	3.58	-0.10	2.72	-0.73	5.84	+1.89	3.14	-1.64	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Greensburg.....	4.85	+0.90	2.61	-0.34	3.86	+0.83	2.76	-0.85	2.42	-1.41	6.17	+2.78	4.16	+0.40	3.58	-0.44	5.20	+1.94	3.20	-0.15	6.80	+5.12	3.02	-0.16	49.13	+8.92
Greenville.....	2.96	-0.86	2.42	-0.21	5.47	+1.75	3.71	+0.48	3.35	-0.11	2.80	-1.45	6.27	+1.82	3.75	+0.02	3.53	+0.18	3.35	-0.26	5.28	+2.62	2.30	-0.62	45.19	+3.36
Grove City.....	2.74	-1.03	2.22	-0.22	4.16	+1.00	3.16	-0.95	2.65	-1.20	3.42	-0.53	5.57	+1.13	3.56	-0.02	5.92	+2.79	2.33	-1.26	6.57	+4.47	2.38	-0.44	44.68	+3.74
Herr's Island Dam.....	3.37	+0.32	2.08	-0.30	3.53	+0.08	2.38	-0.69	2.39	-0.47	7.37	+3.19	3.24	-0.23	3.24	-0.18	4.61	+2.25	1.92	-0.79	6.41	+4.64	3.20	-0.39	43.75	+7.43
Indiana.....	4.68	+0.61	3.63	+0.66	4.31	+0.26	3.09	-0.93	4.29	+0.02	3.53	-1.21	3.64	-0.81	5.01	+0.66	5.71	+1.82	2.40	-1.20	7.03	+4.43	3.39	-0.14	50.71	+4.17
Irwin.....	3.76	+0.64	2.05	-0.25	3.53	-0.15	2.48	-0.88	2.61	-0.64	7.52	+3.00	3.32	-0.86	4.25	+0.31	3.96	+0.19	3.01	+0.25	6.38	+4.22	2.80	-0.20	44.67	+5.63
Johnstown.....	4.38	+0.02	3.26	-0.54	3.58	-0.53	2.15	-1.82	4.27	-0.35	4.33	-1.53	3.08	-1.27	3.89	-0.60	5.78	+2.24	2.01	-0.96	7.19	+4.35	3.10	-0.57	47.02	-1.86
Ketner.....	2.32	.....	2.03	.....	4.00	.....	3.84	.....	2.79	.....	2.12	.....	3.04	.....	3.97	.....	8.87	.....	2.68	.....	5.67	.....	1.64	.....	42.97	.....
Linesville.....	2.21	.....	3.01	.....	5.27	.....	4.08	.....	3.91	.....	1.60	.....	3.37	.....	4.59	.....	5.74	.....	4.45	.....	6.19	.....	2.11	.....	46.53	.....
Lock No. 4.....	4.23	+1.00	2.12	-0.67	3.68	+0.30	2.51	-0.68	3.00	-0.69	3.01	-0.87	3.47	-0.85	3.66	+0.18	5.17	+3.15	2.32	-0.37	6.56	+4.22	3.41	+0.51	43.14	+5.23
Lycippus.....	5.23	+1.16	3.36	+0.31	4.06	+0.20	2.17	-0.64	2.77	-1.23	6.27	+1.88	4.69	-0.28	4.12	+0.07	9.00	+5.96	3.12	+0.22	7.26	+4.79	2.64	-1.07	54.71	+11.37
Martin.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.87	.....	6.08	.....	2.84	.....	6.87	.....	3.85	.....	.....	.....
Mosgrove.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Castle.....	2.44	-0.56	2.07	-0.40	3.77	+1.02	3.94	+1.47	1.76	-1.48	1.59	-2.75	3.66	-0.60	3.54	+0.39	4.00	+0.85	2.62	-0.13	5.11	+2.99	2.33	-0.13	36.83	+0.67
Newell.....	3.94	.....	1.70	.....	2.54	.....	1.70	.....	2.73	.....	1.94	.....	3.27	.....	4.10	.....	6.36	.....	2.05	.....	6.67	.....	3.14	.....	40.14	.....
North Shenango.....	1.51	.....	3.41	.....	4.25	.....	3.30	.....	3.28	.....	1.84	.....	2.41	.....	2.94	.....	5.19	.....	4.57	.....	6.23	.....	1.81	.....	40.74	.....
Parkers Landing.....	2.75	-0.77	2.17	-1.00	3.82	+0.20	3.34	-0.18	2.43	-1.35	1.98	-2.40	5.49	+1.02	3.42	-0.68	5.05	+1.64	2.35	-0.50	5.81	+2.97	2.72	-0.51	41.33	-1.56
Pennline.....	1.49	.....	2.37	.....	5.21	.....	4.46	.....	2.26	.....	2.10	.....	5.35	.....	3.88	.....	5.80	.....	4.02	.....	6.79	.....	1.86	.....	45.59	.....
Pittsburgh.....	3.35	+0.63	1.80	-0.64	3.36	+0.39	1.66	-1.38	2.49	-0.85	5.33	+1.65	2.81	-1.02	3.03	-0.25	5.07	+2.59	2.25	-0.45	5.06	+2.51	2.36	-0.37	38.57	+2.81
Ridgway.....	2.24	-0.73	1.54	-0.97	3.72	+0.21	2.05	-0.74	4.04	-0.30	3.69	-0.82	3.59	-0.54	5.98	+2.44	4.91	+2.03	2.49	-0.57	4.94	+2.41	1.44	-1.23	40.63	+1.19
Saegertown.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saltsburg.....	4.04	+0.16	2.95	-0.11	3.53	+0.22	2.51	-0.82	2.57	-0.84	6.14	+3.21	4.07	+0.32	2.68	-1.01	9.52	+6.08	2.67	-0.42	6.87	+4.88	2.95	-0.38	50.50	+11.29
Sharon.....	1.92	.....	1.73	.....	3.24	.....	3.50	.....	1.49	.....	2.25	.....	3.51	.....	2.52	.....	3.25	.....	2.09	.....	4.79	.....	1.48	.....	31.77	.....
Somerset.....	4.54	-0.24	3.96	-0.01	3.71	-0.74	2.80	-1.82	6.11	+1.09	6.52	+1.36	5.24	+0.88	6.33	+0.75	8.45	+4.79	3.01	-0.01	7.51	+4.25	4.73	+0.77	62.91	+11.07
Springdale.....	.....	.....	2.46	-0.18	3.52	-0.05	2.67	-0.57	2.29	-1.23	8.25	+3.84	.....	.....	2.94	-1.20	4.60	+1.42	2.73	-0.51	6.50	+4.73	2.95	-0.30	.....	.....
Summit.....	1.66	.....	2.78	.....	4.73	.....	4.00	.....	3.06	.....	2.70	.....	4.50	.....	3.94	.....	3.25	.....	6.55	.....	7.52	.....	2.18	.....	46.87	.....
Tionesta.....	.....	.....	.....	.....	3.74	.....	3.32	.....	2.11	.....	2.69	.....	3.98	.....	3.54	.....	6.14	.....	2.95	.....	5.73	.....	2.41	.....	.....	.....
Turnerville.....	1.48	.....	2.24	.....	3.36	.....	3.39	.....	2.63	.....	1.53	.....	.....	.....	1.86	.....	3.41	.....	2.31	.....	4.73	.....	.....	.....	.....	.....
Uniontown.....	4.90	+0.99	1.88	-1.28	3.95	-0.10	3.40	-0.38	4.90	+0.81	4.10	-0.70	4.51	-0.54	6.01	+1.35	5.75	+2.60	3.15	0.00	8.97	+5.93	3.92	+0.29	55.44	+8.97
Vandergrift.....	3.21	.....	2.53	.....	4.22	.....	2.54	.....	3.15	.....	3.36	.....	2.56	.....	3.60	.....	6.22	.....	1.96	.....	5.98	.....	2.34	.....	41.67	.....
Warren.....	1.76	-1.29	2.07	-0.64	3.51	+0.30	3.43	-0.05	2.86	-1.59	3.85	-0.46	4.89	-0.04	2.52	-1.56	7.23	+3.52	3.30	-0.15	5.41	+2.04	2.50	-0.64	43.33	+1.03
Washington.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Waynesburg.....	.....	.....	.....	.....	.....	.....	2.09	.....	5.73	.....	3.79	.....	.....	.....	6.68	.....	7.01	.....	1.90	.....	.....	.....	.....	.....	.....	.....
Westford.....	1.67	.....	2.49	.....	4.87	.....	4.00	.....	3.05	.....	2.89	.....	4.19	.....	3.27	.....	5.70	.....	3.87	.....	6.65	.....	1.56	.....	44.21	.....
West Newton.....	4.04	+0.51	2.50	-0.60	3.48	-0.22	2.44	-0.95	3.32	-0.24	4.10	+0.07	2.43	-2.04	4.28	+0.35	5.32	+2.71	2.79	+0.20	7.22	+4.99	2.93	-0.38	44.85	+4.40
POTOMAC BASIN.																										
Arendtsville.....	2.04	.....	1.99	.....	2.06	.....	3.50	.....	8.17	.....	2.50	.....	3.08	.....	5.33	.....	8.04	.....	0.84	.....	.....	.....	.....	.....	.....	.....
Chambersburg.....	2.18	-0.41	1.87	-1.04	2.64	-0.36	3.19	+0.35	6.29	+2.64	2.61	-1.40	4.56	+1.28	5.14	+0.90	8.48	+5.74	1.21	-1.99	4.35	+1.70	3.23	+0.61	45.75	+8.02
LAKE BASIN.																										
Erie.....	1.59	-1.43	1.87	-0.89	3.73	+1.01	3.58	+0.99	0.97	-2.61	3.48	-0.10	3.05	-0.05	4.30	+0.93	3.24	-0.27	3.57	-0.24	5.21	+1.60	1.33	-1.73	35.92	-2.79
West Bingham.....	1.13	.....	1.75	.....	2.10	.....	2.73	.....	3.61	.....	2.14	.....	3.60	.....	2.15	.....	.....	.....	2.32	.....	4.86	.....	1.02	.....	.....	.....

Letters of alphabet denote number of days missing.

Monthly and Annual Mean Temperatures for the Year 1921, with Departures from the Normal.

STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.
<i>Atlantic Drainage.</i>																										
Altoona.....	29.6	+2.3	31.4	+5.6	48.0	+10.7	54.8	+6.6	58.4	-1.0	68.8	+2.6	73.6	+2.5	66.3	-3.3	68.1	+3.4	52.3	+0.4	40.9	+0.5	31.0	+2.0	51.9	+2.7
Arendtsville.....	31.8	.....	34.2	.....	50.2	.....	56.5	.....	60.4	.....	71.6	.....	76.9	.....	69.6	-3.7	69.5	+3.3	51.4	-4.1	40.8	-3.2	29.4	-3.7	54.0	+1.4
Bethlehem.....	34.0	+4.1	34.6	+4.8	50.4	+10.8	57.6	+5.7	61.4	-1.6	72.0	+2.2	77.5	+2.8	69.6	-3.7	69.5	+3.3	51.4	-4.1	40.8	-3.2	29.4	-3.7	54.0	+1.4
Bustleton.....	34.0	.....	34.7	.....	51.1	.....	58.0	.....	61.6	.....	71.1	.....	77.4	.....	70.1	.....	70.9	.....	54.8	.....	44.6	.....	33.4	.....	55.1	+3.9
Carlisle.....	31.6	+3.7	35.4	+6.0	50.4	+12.9	58.8	+6.6	61.4	+1.2	72.9	+2.0	79.2	+4.9	70.2	-2.5	71.0	+6.3	54.1	+1.8	43.2	+2.5	33.4	+2.1	55.1	+3.9
Catawissa.....	30.4	+2.3	33.4	+4.3	49.3	+11.7	55.8	+4.5	60.6	-0.8	70.8	+3.1	77.5	+4.8	69.0	-1.3	70.0	+6.5	52.5	-1.1	42.6	+0.2	31.7	+0.1	53.6	+2.9
Center Hall.....	29.2	+3.8	32.6	+6.7	46.8	+11.0	54.4	+5.5	59.9	-0.1	69.0	+2.9	74.9	+3.5	66.2	-3.0	66.9	+4.9	51.9	+0.5	.....	.....	33.6	+4.6	.....	.....
Clearfield.....	32.0	+5.2	32.8	+6.0	48.1	+12.0	54.8	+6.8	60.2	-0.1	70.3	+4.0	76.2	+5.1	68.4	-2.0	70.0	+7.6	53.9	+2.1	41.8	+1.2	31.8	+3.4	53.4	+4.3
Coatesville.....	31.4	+1.0	34.0	+4.1	51.4	+12.0	57.5	+6.7	61.6	-0.1	73.1	+3.2	78.8	+4.1	71.1	-1.7	71.2	+5.1	53.7	-0.6	43.0	+0.1	31.0	-2.0	54.8	+2.7
Colebrook.....	31.5	.....	33.8	.....	49.6	.....	56.2	.....	60.3	.....	71.5	.....	77.3	.....	69.4	.....	69.4	.....	53.0	.....	42.3	.....	31.8	.....	53.8	.....
Emporium.....	28.0	+2.2	30.2	+5.5	43.6	+8.6	52.4	+5.3	57.1	-1.6	.....	.....	.....	.....	64.8	-3.1	65.0	+3.6	49.0	-1.0	40.3	+1.1	29.2	+0.1	.....	.....
Everett.....	33.8	+5.6	35.2	+8.3	48.6	+9.9	56.4	+8.0	59.2	-0.6	69.4	+2.5	74.4	+1.7	63.7	-6.2	.....	.....	51.6	-0.5	46.8	+6.4	.....	.....	.....	.....
Freeland.....	27.7	.....	29.6	.....	44.0	.....	52.5	.....	56.6	.....	67.5	.....	74.4	.....	65.1	.....	65.1	.....	50.2	.....	37.4	.....	25.4	.....	49.6	.....
George School.....	33.8	+3.0	33.8	.....	50.4	+11.2	56.4	+6.3	59.8	-1.2	70.6	+2.9	76.5	+2.9	69.2	-2.2	69.9	+5.0	54.0	-0.9	43.5	+0.9	31.8	-0.5	54.1	+2.6
Gettysburg.....	33.2	+4.2	36.2	+5.9	51.7	+12.5	58.8	+8.4	61.8	+0.5	72.6	+3.0	78.8	+4.8	70.7	-1.0	71.9	+6.9	55.3	+3.1	45.9	+4.6	34.5	+2.8	56.0	+4.7
Gordon.....	29.7	+3.3	31.5	+6.2	46.6	+10.7	54.6	+6.7	58.3	-0.2	67.6	+2.4	74.0	+3.8	62.2	-2.0	66.2	+4.4	49.7	-0.3	40.7	+1.7	28.8	+0.3	50.8	+3.1
Hanover.....	33.6	+0.7	36.2	+4.5	52.3	+10.7	58.8	+5.8	62.5	+1.4	73.8	+3.2	79.0	+3.6	70.8	-2.8	72.0	+4.8	55.6	-0.5	45.2	+1.0	34.8	+1.0	56.2	+2.8
Harrisburg.....	32.0	+2.1	34.9	+5.9	49.6	+10.5	56.9	+5.4	61.4	-0.7	72.8	+2.8	78.9	+4.2	70.9	-1.8	70.8	+4.8	54.8	+0.4	43.8	+2.1	33.6	+0.8	55.0	+3.0
Holtwood.....	32.2	.....	35.5	.....	51.0	.....	58.4	.....	62.6	.....	74.8	.....	81.0	.....	71.2	.....	72.4	.....	55.2	.....	44.4	.....	33.7	.....	56.0	.....
Huntingdon.....	31.3	+2.7	33.3	+4.9	48.4	+10.1	56.2	+6.6	60.6	-0.1	70.4	+2.2	76.6	+4.4	68.1	-2.6	69.4	+5.1	52.8	+0.3	43.2	+1.7	32.4	+1.3	53.6	+3.0
Jersey Shore.....	29.4	.....	32.8	.....	47.4	.....	57.2	.....	61.7	.....	71.4	.....	77.7	.....	69.2	.....	70.1	.....	53.4	.....	42.0	.....	31.6	.....	53.7	.....
Kennett Square.....	33.4	+2.4	34.6	+4.2	50.8	+11.2	56.9	+8.6	59.4	-0.9	70.2	+1.3	75.9	+2.0	69.3	-2.6	69.2	+3.0	54.2	-0.4	.....	.....	.....	.....	.....	.....
Lancaster.....	33.7	+4.1	35.4	+5.6	51.8	+13.8	57.4	+6.6	61.5	+0.5	71.4	+1.3	78.1	+4.7	70.2	-2.5	70.2	+5.7	52.9	-0.5	43.4	+0.3	33.4	0.0	55.0	+3.3
Lawrenceville.....	27.5	+2.9	29.8	+6.8	44.2	+10.2	53.2	+7.4	58.0	+0.5	67.1	+1.9	75.2	+5.0	66.0	-2.1	.....	.....	50.3	+0.3	39.1	+0.4	27.4	0.0	.....	.....
Lebanon.....	32.8	+3.8	35.1	+6.4	51.0	+12.4	53.0	+7.5	62.1	+1.1	73.2	+3.9	78.8	+5.2	70.8	-1.2	71.0	+5.8	54.4	+1.2	43.1	+0.9	32.4	+0.5	55.2	+4.0
Lewisburg.....	30.6	+5.2	33.0	+7.2	47.8	+12.5	56.2	+8.0	60.8	+2.3	71.5	+4.3	77.7	+6.2	69.0	+0.1	69.4	+7.4	53.0	+2.8	42.4	+3.3	31.4	+2.4	53.6	+5.1
Lock Haven.....	28.5	+1.1	31.6	+4.5	46.4	+8.6	55.5	+5.2	60.0	-1.9	70.0	+0.6	76.5	+3.2	67.5	-3.8	69.0	+4.3	.....	.....	.....	.....	.....	.....	.....	.....
Lykens.....	30.4	.....	33.2	.....	49.0	.....	56.6	.....	60.0	.....	69.8	.....	76.2	.....	68.6	.....	68.6	.....	52.4	.....	41.6	.....	30.9	.....	53.1	.....
Marcus Hook.....	36.5	.....	37.4	.....	51.8	.....	59.8	.....	61.8	.....	73.6	.....	77.7	.....	69.1	.....	73.1	.....	57.9	.....	45.2	.....	34.0	.....	56.5	.....
Mauch Chunk.....	30.3	+2.9	31.2	+4.2	47.0	+10.2	55.4	+6.6	60.0	-0.1	69.6	+1.8	76.0	+3.7	68.3	-2.0	68.1	+4.1	52.1	-0.2	41.7	+1.1	30.3	-0.2	52.5	+2.7
Mifflintown.....	31.5	+3.9	33.6	+6.9	48.2	+10.2	56.2	+6.4	59.8	-0.9	71.0	+3.2	77.6	+4.9	70.2	-0.4	69.8	+6.0	54.0	+1.6	42.9	+2.3	32.7	+2.5	54.0	+3.9
Milford.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	64.1	-3.6	64.0	+2.6	.....	.....	.....	.....	.....	.....	.....	.....
Montrose.....	25.1	+2.6	25.8	+5.5	40.8	+9.7	51.4	+3.7	55.4	+0.4	65.0	+2.3	72.3	+4.1	64.3	-2.6	64.4	+4.3	48.2	-0.8	36.0	-0.9	24.2	-1.4	47.7	+2.5
Mount Pocono.....	25.6	+2.7	24.4	+3.7	38.6	+6.6	48.4	+5.4	56.2	+1.5	60.2	-1.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Muncy Valley.....	28.6	.....	31.0	.....	45.8	.....	55.4	.....	59.2	.....	67.2	.....	73.4	.....	64.6	.....	65.8	.....	50.2	.....	39.8	.....	28.0	.....	50.8	.....
Narberth.....	33.7	.....	35.2	.....	51.4	.....	57.1	.....	60.8	.....	71.6	.....	77.0	.....	70.3	.....	70.6	.....	54.6	.....	44.6	.....	33.0	.....	55.0	.....
Neshaminy Falls.....	31.6	.....	32.4	.....	50.0	.....	55.8	.....	60.5	.....	70.1	.....	76.6	.....	69.8	.....	70.1	.....	54.0	.....	43.6	.....	31.0	.....	53.8	.....
Palmerton.....	30.3	.....	31.5	.....	46.8	.....	56.0	.....	59.8	.....	70.2	.....	76.8	.....	63.1	.....	68.0	.....	51.2	.....	41.1	.....	30.8	.....	52.6	.....
Philadelphia (a).....	36.0	+3.3	37.6	+4.6	52.5	+12.1	58.5	+6.9	62.4	-0.4	73.4	+2.0	78.6	+2.1	72.7	-1.8	72.8	+5.4	57.7	+0.7	46.8	+1.9	35.6	-0.1	57.0	+3.1
Philadelphia (d).....	34.4	.....	35.2	.....	51.4	.....	57.4	.....	61.5	+0.4	73.2	.....	78.0	.....	72.6	.....	72.6	.....	57.1	.....	46.0	.....	34.4	.....	56.2	.....
Phoenixville.....	32.4	.....	34.8	.....	52.0	.....	57.2	.....	61.7	.....	71.2	.....	77.6	.....	70.0	.....	72.0	.....	54.0	.....	43.9	.....	31.9	.....	54.9	.....
Quakertown.....	29.1	+2.1	32.2	+4.0	48.3	+12.0	55.1	+6.7	59.6	0.0	70.6	+2.4	76.2	+3.7	68.4	-1.9	68.4	+4.8	51.6	-0.5	41.6	+0.6	30.5	-0.6	52.6	+2.8
Reading.....	32.9	+3.0	34.0	+4.4	50.1	+10.7	57.2	+6.1	61.4	-0.5	72.8	+2.5	78.6	+3.7	71.0	-1.4	71.3	+5.0	55.1	+0.4	43.7	+1.2	33.4	+1.2	55.2	+3.0
Sadsburyville.....	33.4	.....	35.0	.....	51.5	.....	57.8	.....	61.7	.....	72.6	.....	78.6	.....	71.2	.....	72.0	.....	55.6	.....	44.6	.....	33.0	.....	55.6	.....
Scranton.....	29.3	+2.1	31.6	+6.1	45.8	+9.6	55.6	+7.7	60.1	+0.6	69.4	+2.7	76.0	+3.9	67.8	-1.4	68.1	+5.9	52.6	+0.4	41.2	+2.1	29.6	-0.2	52.3	+3.3
Selinsgrove.....	30.0	+1.1	.....	.....	.....	.....	.....	.....	60.7	-0.4	69.8	+0.8	77.1	+3.6	68.8	-2.7	69.2	+4.8	52.7	+0.1	42.3	+0.8	32.1	+0.7	.....	.....
Shawmont.....	34.8	.....	36.3	.....	53.4	.....	59.0	.....	62.8	.....	73.8	.....	79.0	.....	72.4	.....	72.2	.....	55.4	.....	45.6	.....	34.1	.....	56.6	.....
State College.....	29.0	+2.7	31.0	+5.5	46.2	+10.9	53.6	+6.2	56.8	-2.3	67.5	+2.0	73.6	+3.0	65.4	-3.3	66.4	+4.0	50.8	-0.2	40.0	+0.3	29.8	+0.2	50.8	+2.4
Towanda.....	27.4	+2.2	28.9	+5.3	44.4	+10.0	53.6	+7.0	58.4	.....	66.8	+4.4	75.5	+4.9	66.8	-1.7	67.0	+5.0	50.6	-0.2	39.8	+0.5	28.0	-0.6	50.6	+3.1
Wellsboro.....	24.4	+0.1	25.4	+0.8	40.6	+7.9	50.8	+6.2	55.9	-0.9	64.4	-0.1	72.8	+3.9	63.4	-3.0	63.7	+4.0	48.8	-0.3	36.7	-0.8	26.7	-1.5	47.8	+1.4
West Chester.....	33.6	+3.4	34.8	+4.0	51.4	+13.1	56.8	+7.1	60.4	-0.3	71.5	+2.1	77.2	+2.9	70.2	-1.8	70.4	+5.1	54.8	+0.3	44.0	+1.2	32.8	-0.2	54.8	+3.1

COOPERATIVE AND RAINFALL OBSERVERS.

Stations.	Observers.	Stations.	Observers.	Stations.	Observers.
Allentown.....	John A. Frick.	Girardville.....	Henry J. Weller.	Philadelphia.....	U. S. Weather Bureau.
Altoona.....	Lewis E. Biller.	Gordon.....	Capt. J. G. Johnson.	Philadelphia.....	Commandant, Navy
Ansonia.....	Paul H. Mulford.	Gouldsboro.....	Gustav Holtz.	Navy Yard.....	Yard.
Arendtsville.....	R. C. Walton.	Graterford.....	C. K. Kulp.	Phoenixville.....	N. Springfield Water Co.
Beaver Dam.....	U. S. Engineer.	Greensboro.....	James G. Kramer.	Pittsburgh.....	U. S. Weather Bureau.
Beaver Falls.....	W. Edward Eakin.	Greensburg.....	Westmoreland Water Co.	Pottstown.....	William A. Stephan.
Bellefonte.....	Western Penitentiary.	Greenville.....	Water Supply Com.	Pottsville.....	John H. Strauch.
Bethlehem.....	Prof. C. H. Rominger.	Grove City.....	Prof. H. W. Harmon.	Quakertown.....	John E. Benner.
Bloersville.....	A. G. Mountz.	Hamburg.....	State Sanatorium.	Reading.....	U. S. Weather Bureau.
Bradford.....	B. A. Wise, C. E.	Hanover.....	Mrs. Mabel Wolcott.	Renovo.....	H. L. Baird.
Brady's Bend.....	E. R. Dewey.	Harrisburg.....	U. S. Weather Bureau.	Ridgway.....	Earl Overholser.
Brookville.....	John Fawcett.	Hawley.....	J. S. Pennell.	Sadsburyville.....	S. A. Clarke.
Bustleton.....	Agr. Experiment Station.	Herr's Island Dam.....	U. S. Engineer.	Saegertown.....	J. G. Apple.
Carlisle.....	Clarence E. Miller.	Holtwood.....	H. W. Lowy, C. E.	Salisbury.....	Thomas M. Duncan.
Catawissa.....	H. H. Yetter.	Huntingdon.....	Prof. W. J. Swigart.	Scranton.....	U. S. Weather Bureau.
Center Hall.....	S. W. Smith.	Indiana.....	R. W. Wehrle.	Selinsgrove.....	Prof. T. C. Houtz.
Chambersburg.....	Wm. B. Spear.	Irwin.....	J. B. Gallagher.	Sharon.....	J. K. Harris.
Clarion.....	N. A. Goble.	Jersey Shore.....	C. B. McCullory.	Shawmont.....	Winfield S. Guiles.
Claysville.....	E. T. Buchanan.	Johnstown.....	E. C. Lorentz.	Somersot.....	William M. Schrock, C. E.
Clearfield.....	E. W. Hess, C. E.	Kennett Square.....	Wm. P. Mercer.	Springdale.....	U. S. Engineer.
Cloe.....	Frank McElwain.	Ketner.....	J. Nelson.	State College.....	Prof. William Frear.
Clymer.....	Thomas Fleitz.	Lancaster.....	C. K. Wills.	Stroudsburg.....	H. Q. Snyder.
Coatesville.....	Prof. W. T. Gordon.	Lansford.....	Lehigh Coal & Nav. Co.	Summit.....	L. E. Dickey.
Colebrook.....	William A. Rorer.	Lawrenceville.....	C. P. Darling.	Sunbury.....	Theo. Welker.
Confluence.....	Grant Pyle.	Lebanon.....	S. B. Benzing.	Tionesta.....	J. R. Clark.
Corapolis.....	U. S. Engineer.	Lewisburg.....	Prof. Wm. G. Owens.	Towanda.....	Hiram E. Bull, C. E.
Corry.....	N. R. Dickson.	Linesville.....	Water Supply Com.	Trout Run.....	Orpha Apker.
Creekside.....	Roy Spencer.	Lloyd.....	M. L. Fish.	Turnerville.....	S. A. Marvin.
Cresson.....	P. McGurn.	Lock Haven.....	Prof. John A. Robb.	Uniontown.....	Wm. W. Marsteller.
Davis Island Dam.....	U. S. Engineer.	Lock No. 4.....	J. A. Sweeney.	Vandergrift.....	W. H. McCune.
Derry.....	D. M. Wineman.	Lycippus.....	Westmoreland Water Co.	Warren.....	Mrs. Anna Simpson.
Doylestown.....	Geo. Hart.	Lykens.....	Susquehanna Coal Co.	Waterville.....	Robert Myers.
Driftwood.....	H. P. Muttersbaugh.	Marcus Hook.....	General Chemical Co.	Waynesburg.....	H. T. McClelland.
Ebensburg.....	D. H. Jones.	Mauch Chunk.....	R. K. Wintermute.	Weikert.....	David Libby.
Edinboro.....	G. U. Hopkins.	Mifflintown.....	Wellington Smith.	Wellsboro.....	George W. Hill.
Elk Lick.....	J. D. Miller.	Milford.....	J. H. Van Etten.	West Bingham.....	Frank Johnson.
Emporium.....	T. B. Lloyd.	Montrose.....	Silas Jagger.	West Chester.....	Arthur M. Hay.
Ephrata.....	E. K. Hershey.	Mount Pocono.....	Cecil J. Hoskinson.	Westford.....	C. C. Collins.
Erie.....	U. S. Weather Bureau.	Muncy Valley.....	S. P. Worthington.	West Newton.....	L. C. Rodibaugh.
Everett.....	Joseph E. Thropp.	Narberth.....	Charles Decker.	White Haven.....	Mrs. Jane E. Wallen.
Falls Creek.....	J. S. Snell.	Neshaminy Falls.....	N. Springfield Water Co.	Wilkes-Barre.....	Milton Wentz.
Forest City.....	L. L. Whipple.	New Castle.....	New Castle Water Co.	Williamsport.....	Jacob Adril.
Franklin.....	F. E. Dixon.	Newell.....	General Chemical Co.	York.....	C. L. Bott.
Freeland.....	Theodore Reichmann.	North Shenango.....	Mrs. F. Patterson.	York Haven.....	Water Supply Co.
Freeport.....	Mrs. Anna R. Burtner.	Palmerton.....	Frank G. Breyer.		
George School.....	N. W. Swayne.	Parkers Landing.....	Henry Turk.		
Gettysburg.....	Col. E. B. Cope.	Penn Line.....	Retta Crumb.		

WEATHER BUREAU AND COOPERATIVE STATIONS, 1921.



CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

VOL. XXVII PHILADELPHIA, PA., JANUARY, 1922. No. 1.

GENERAL SUMMARY.

The month as a whole was abnormally cold and dry. The temperature deficiency accumulated, mostly, during one cold week from the 22d to the 28th inclusive. Otherwise the temperatures were mostly seasonable. The greater portion of the precipitation occurred in two periods, the 11-12th and the 28th-29th. In the first period the snowfall was heavy at many places in the mountains and in the western counties, while in the eastern part of the State a large portion was rain and the snowfall was generally moderate. Highways in the mountain districts were blocked for several days. The precipitation of the second period was a very heavy snowfall that covered districts east of the mountains only, and practically no precipitation occurred west of the mountains. This snowfall was the heaviest that has occurred in the southeastern counties for many years, and the highways were blocked for several days. The snow drifted badly and on the night of the 28th-29th many suburban trolleys were stalled and remained, with their passengers, out on the road for ten or twelve hours. Railroad traffic was practically suspended on lines between Philadelphia and Baltimore, and was badly delayed on all other lines in southeastern Pennsylvania. It was moving on normal schedules again at the close of the month, but the highways were opened only in certain sections, and through traffic was still impossible. Outdoor work of most kinds was practically suspended during the last ten days of the month. The streams remained at moderate or low stages throughout the month, and there were no reports of the ice breaking. The winter grain fields were bare a large part of the month, especially in the southeastern counties, and even the heavy snow of the 28th-29th drifted so badly that they were only partly covered at the end of the storm. However there was little alternate thawing and freezing of a character to damage the grains and they were reported in good condition at the end of the month.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 78 stations, was 25.0°, or 3.1° below the January normal. The highest mean was 31.2° at Philadelphia, and the lowest was 17.3° at Wellsboro. The highest temperature recorded was 62° at Derry, Lycippus, and Uniontown on the 5th. The lowest was -19° at Tionesta on the 24th, and at Wellsboro and West Bingham on the 26th. This maximum has been exceeded in January in 32 of the last 35 years. Lower temperatures than the above minimum have been recorded in 5 Januaries during that time.

PRECIPITATION.

The average precipitation for the State, from rain and melted snow, as shown by the records from 119 stations, was 2.26 inches, or 0.93 inch less than the January normal. The greatest monthly amount recorded was 4.46 inches at Coatesville, and the least was 1.15 inches at Lawrenceville. The greatest 24 hour rainfall was 2.18 inches at Sunbury on the 11th. The snowfall averaged 16.0 inches for the State, the heaviest being 33.6 inches at Coatesville, while Lewisburg and Somerset were close seconds with 30.2 and 30.4 inches respectively.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.		
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.
Erie.....	149.6	295.3	51	73	68	12,323	16.6	63	se.
Harrisburg.....	175.0	300.9	58	70	62	5,391	7.2	35	ne.
Philadelphia.....	164.1	300.9	55	71	62	7,801	10.5	46	n.
Pittsburgh.....	184.3	298.2	62	78	65	8,721	11.7	39	nw.
Reading.....	138.0	301.0	46	78	77	5,419	7.3	31	n.
Scranton.....	.....	.....	.....	82	70	5,865	7.9	40	nw.

* For any five-minute period.

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	23.2	61	-19	4.19	6.75	2.12	5	11	15
1889.....	29.4	68	-5	3.54	7.02	1.82	9	13	9
1890.....	37.5	77	-2	3.04	6.87	1.47	7	8	16
1891.....	30.5	64	-4	3.64	8.74	1.22	6	10	15
1892.....	26.2	66	-28	4.77	8.46	2.08	8	8	15
1893.....	19.0	57	-26	2.85	4.82	1.65	7	10	14
1894.....	32.8	65	-9	2.29	4.71	0.83	9	9	13
1895.....	24.2	58	-17	4.17	6.36	1.83	7	10	14
1896.....	27.6	60	-15	1.43	2.40	0.52	8	9	14
1897.....	25.6	74	-25	2.15	3.54	0.87	8	8	15
1898.....	30.7	67	-16	4.25	7.57	1.32	6	8	17
1899.....	26.6	66	-21	3.05	4.84	0.82	12	8	11
1900.....	29.8	63	-8	2.64	4.37	1.36	8	9	14
1901.....	29.1	59	-10	2.22	4.41	0.74	8	8	15
1902.....	25.6	58	-13	2.80	5.15	1.00	8	9	14
1903.....	26.9	68	-13	3.31	5.09	1.49	6	8	17
1904.....	20.0	66	-42	3.55	5.82	2.08	10	6	15
1905.....	23.8	69	-21	3.70	7.55	1.72	8	8	15
1906.....	35.0	85	-4	2.53	5.28	0.76	10	8	13
1907.....	30.0	75	-23	4.36	9.69	2.14	6	7	18
1908.....	28.4	59	-18	2.68	5.33	1.46	12	8	11
1909.....	31.2	72	-19	2.92	4.25	1.58	9	6	16
1910.....	27.2	56	-22	5.55	8.91	3.27	7	5	19
1911.....	31.6	70	-5	3.54	6.38	1.25	8	5	18
1912.....	18.6	57	-35	1.92	3.72	0.47	8	7	16
1913.....	36.5	65	3	4.95	8.90	1.51	9	6	18
1914.....	30.2	81	-27	3.37	5.77	1.40	7	7	17
1915.....	28.3	62	-26	5.56	9.69	2.43	10	6	15
1916.....	34.2	76	-12	2.42	5.33	0.20	9	8	14
1917.....	27.9	69	-18	3.60	6.69	1.06	11	8	12
1918.....	16.2	57	-29	3.51	7.28	1.20	10	8	13
1919.....	32.0	64	-15	2.53	2.10	0.34	14	8	9
1920.....	20.9	59	-23	2.47	5.35	1.00	9	8	14
1921.....	31.0	63	-13	2.58	5.23	0.89	12	7	12
1922.....	25.0	62	-19	2.26	4.46	1.15	14	7	10

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	2.9	3.8	30	2.2	2	18
Phillipsburg.....	Delaware.....	1.7	2.5	5	0.9	31	22
Mauch Chunk.....	Lehigh.....	.....	.....	.....	.....	.....	15
Wilkes-Barre.....	Susquehanna.....	.....	.....	.....	.....	.....	20
Williamsport.....	Susquehanna.....	.....	.....	.....	.....	.....	20
Harrisburg.....	Susquehanna.....	.....	.....	.....	4.5	1	17
Freeport.....	Allegheny.....	6.7	11.4	7	4.2	15	22
West Newton.....	Youghiogheny.....	2.6	7.5	21	1.0	18	20
Greensboro.....	Monongahela.....	.....	.....	.....	.....	.....	20
Pittsburgh.....	Ohio.....	6.0	13.2	21	2.8	26	22
Beaver Dam.....	Ohio.....	10.0	18.0	21	5.9	15	30

Climatological Data for January, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	35	23.6	-3.7	51	19	-8	26	34	1.88	-0.65	1.00	22.0	9	14	7	10	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	33	23.6	-6.3	48	10	-5	17	39	2.72	-0.79	.....	25.0	6	6	17	8	w.	Prof. Chas. H. Rominger
Bustleton.....	Philadelphia.....	125	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Experiment Station.
Carlisle.....	Cumberland.....	467	55	25.8	-2.1	54	5	-5	17	36	2.82	-0.32	1.26	22.0	9	17	2	12	nw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	25	23.4	-4.7	54	5	-7	30	46	3.57	+0.20	1.40	31.5	9	19	2	10	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	26	24.4	-1.0	50	5	-10	26	34	2.27	-0.39	1.65	18.7	8	20	7	4	w.	S. W. Smith.
Chambersburg.....	Franklin.....	631	22	25.8	-2.9	60	5	-3	13	45	2.91	+0.32	1.86	22.3	9	13	7	11	ne.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	12	25.3	-3.5	55	31	-6	17	43	2.19	-2.08	1.06	19.0	9	18	6	7	w.	E. W. Hess.
Coatesville.....	Chester.....	380	34	26.6	-3.8	53	5	-1	26	46	4.46	+0.45	2.40	33.6	8	13	6	12	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	12	25.5	.....	48	5	-2	26	32	2.60	.....	1.06	16.3	10	17	3	11	nw.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	34	21.8	-4.0	52	5	-14	26	41	2.13	-1.47	0.69	10.0	4	11	12	8	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	21	27.3	-2.0	46	10	4	13	32	2.37	-0.62	1.07	18.0	6	15	2	14	n.	E. K. Hershey.
Everett.....	Bedford.....	1,080	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,873	7	22.4	.....	48	5	-2	24	24	2.86	.....	1.18	18.9	11	14	7	10	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	15	27.6	-3.2	52	5	4	26	36	2.19	-0.66	0.85	14.5	8	15	8	8	sw.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	48	28.0	-1.0	58	5	0	26	37	2.42	-0.74	1.40	22.5	8	14	6	11	n.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	18	22.9	-3.5	48	15	-9	26	44	3.37	-0.83	1.20	24.0	8	16	5	10	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	29	25.0	-3.7	45	10	-1	26	33	.....	.....	.....	10.0	.....	18	4	9	w.	State Sanatorium.
Hanover.....	York.....	600	18	28.2	-4.7	55	5	5	26	33	.....	.....	.....	.....	.....	16	4	11	n.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	52	26.9	-1.8	52	5	4	26	25	2.49	-0.33	1.01	4.5	10	11	8	12	nw.	U. S. Weather Bureau.
Huntingdon.....	Huntingdon.....	650	34	24.0	-4.6	54	5	-13	17	44	2.85	-0.52	1.85	20.5	7	13	4	14	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	2	.....	.....	.....	.....	-10	17	.....	1.92	.....	1.13	16.5	7	.....	.....	.....	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster.....	Lancaster.....	255	34	26.4	-3.2	52	5	1	26	46	2.76	-0.53	0.90	22.0	6	19	6	6	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	24	21.2	-3.4	59	5	-17	26	45	1.15	-0.95	0.70	19.5	6	13	4	14	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	81	27.0	-2.0	48	5	2	26	32	2.21	-0.41	1.06	15.3	8	19	5	7	w.	S. B. Benzing.
Lewisburg.....	Union.....	450	47	23.0	-2.4	52	5	-11	17	44	3.61	+0.62	1.50	30.2	10	18	2	11	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. J. A. Robb.
Ohio Drainage.																				
Lykens.....	Dauphin.....	680	7	23.7	.....	55	5	-11	26	52	3.18	.....	1.33	23.5	9	21	1	9	nw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	2	29.0	.....	55	5	9	26	22	2.27	.....	0.86	31.7	7	16	3	12	nw.	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	32	25.0	-2.4	49	5	-2	17	35	2.66	-1.20	0.93	19.0	8	16	8	7	w.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	18	25.4	-2.2	52	5	-5	17	35	1.90	-1.44	1.10	14.8	10	13	3	15	nw.	Wellington Smith.
Montrose.....	Susquehanna.....	1,658	19	18.7	-3.8	52	5	-16	24	43	2.30	-0.56	1.10	16.0	5	18	2	11	nw.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	10	19.5	.....	50	5	-15	24	38	1.78	.....	1.05	19.2	7	10	13	8	sw.	A. H. Boatman.
Narberth.....	Montgomery.....	300	3	28.3	.....	46	10	5	26	24	3.14	.....	1.08	14.6	8	12	6	13	nw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	33	26.1	.....	53	5	1	26	36	1.63	.....	1.00	12.0	9	20	5	6	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	5	24.4	.....	50	5	-4	26	39	1.74	.....	0.60	11.0	5	21	3	7	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	51	31.2	-0.6	53	5	9	26	22	3.16	-0.25	1.28	15.6	8	9	9	13	n.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	6	30.1	.....	53	5	10	26	22	3.13	.....	1.05	15.2	9	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	11	26.2	.....	50	5	2	13	35	1.91	.....	0.77	12.5	5	20	8	3	nw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	37	24.8	-2.2	48	5	-5	17	42	3.00	-0.50	1.03	20.9	7	12	7	12	nw.	John E. Benner.
Reading.....	Berks.....	325	52	27.8	-1.6	51	5	6	26	24	2.16	-1.36	0.99	18.8	8	12	7	12	nw.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	11	28.6	.....	53	5	6	13	27	3.91	.....	1.80	31.0	6	15	5	11	w.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	27	24.1	-1.4	51	5	-2	26	28	1.96	-0.84	1.07	10.2	7	10	12	9	sw.	U. S. Weather Bureau.
Sellingsgrove.....	Snyder.....	455	32	23.5	-5.4	53	5	-6	17	46	2.78	-0.34	1.40	21.3	7	12	11	8	w.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	26	29.2	.....	57	5	9	26	26	2.72	-0.57	1.15	15.5	8	14	8	9	nw.	W. S. Guiles.
State College.....	Center.....	1,217	37	22.2	-4.1	50	5	-9	26	31	2.32	-0.69	1.02	19.8	10	12	10	9	w.	Prof. Wm. Frear.
Stroudsburg.....	Monroe.....	500	10	26.0	.....	54	5	3	3	45	2.67	.....	1.29	.....	5	25	3	3	.....	H. Q. Snyder.
Towanda.....	Bradford.....	754	27	20.6	-4.6	52	5	-14	26	28	2.13	-0.01	1.27	17.9	7	7	14	10	nw.	Hiram E. Bull. C. E.
Wellsboro.....	Tioga.....	1,419	56	17.3	-7.0	48	5	-19	26	43	1.45	-1.16	0.98	23.5	5	21	3	7	w.	George W. Hill.
West Chester.....	Chester.....	455	84	27.3	-2.9	51	5	6	25	25	2.75	-1.00	0.88	23.5	9	19	2	10	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	35	23.9	-3.4	52	5	-8	26	31	2.31	-0.65	1.60	17.9	8	16	7	8	se.	Jacob April.
York.....	York.....	400	34	27.0	-2.3	55	5	-2	13	44	2.51	-0.64	1.08	25.0	8	14	8	9	s.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	29	28.4	.....	59	5	1	25	32	1.76	-1.18	0.42	9.0	10	13	2	16	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	7	21.2	.....	45	5	-16	26	41	2.22	.....	0.47	9.5	10	16	5	10	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	4	22.1	.....	52	5	-11	25	46	1.60	.....	0.36	9.0	10	10	9	12	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	31	21.6	.....	52	5	-15	25	46	1.62	-1.45	0.49	11.0	8	22	4	5	.....	John Fawcett.
Claysville.....	Washington.....	1,150	18	27.9	-3.0	60	5	3	25	37	1.82	-1.89	0.57	5.2	7	20	4	7	n.	J. L. Melvin.
Corry.....	Erie.....	1,400	10	22.4	.....	51	5	-11	26	46	2.23	.....	0.56	12.6	14	17	5	9	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	25	26.1	-4.3	62	5	-4	17	44	2.23	-1.79	0.75	17.7	7	15	8	8	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	4	21.4	.....	52	5	-15	25	47	1.92	.....	0.61	.....	8	15	8	8	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	5	24.1	.....	58	5	-11	17	43	2.98	.....	0.41	28.0	9	11	6	14	w.	J. D. Miller.
Franklin.....	Venango.....	1,000	49	24.0	-2.5	55	4	-10	26											

Daily Precipitation for January, 1922.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh				.02							.77										.21							.68	.50		2.18	
Altoona	Juniata	.06			.26	.05						1.00	.02						.11	.03		.32								.03		1.88	
Ansonia|||	N. Br. Susq.																																
Arendtsville	Potomac																																
Austin	W. Br. Susq.																																
Bellefonte	do.				.30							2.08			.09							.24							.21			2.92	
Bethlehem	Lehigh			.15	.43							.72										.22							*	1.20		2.72	
Bloersville	Lower Susq.				.15							.60																	*	.50		1.25	
Bustleton	Lower Del.																																
Carlisle	Lower Susq.	.10			.24				T.	.20		1.26		.04					.04		.24								.25	.45		2.82	
Catawissa	N. Br. Susq.			T.	.30	.08		.05				1.40							.02	.01		.58							.47	.66		3.57	
Center Hall	Susquehanna				.12			.04				1.65	.10	*	.05					.01		.18							.12			2.27	
Chambersburg	Potomac	T.			.09	.06		.05				1.86	.13	*					1	.06		.18							.05	.43		2.91	
Clearfield	W. Br. Susq.	T.	.02	.38	.10	.25						1.06	.01	.02						.23		.12							T.			2.19	
Coatesville	Lower Del.				.20	.07		.04				1.17								.08		.30							1.80	.80		4.46	
Colebrook	Lower Susq.	.01		T.	.15	.13		.01	.01			1.06							T.	.03	T.	.29							.66	.25		2.60	
Cresson|||	Juniata				.33							1.85	.08	.09	.09				.14		.35											2.93	
Doylestown	Lower Del.				.21	.05			T.			.71	.07									.20							*	1.61		2.85	
Driftwood	W. Br. Susq.	.05		.01	.40							1.00							.06		.02							T.				1.54	
Emporium	W. Br. Susq.	T.		T.	.69				T.			.60		T.					.44		.40											2.13	
Ephrata	Lower Susq.				.20	.14			T.	T.		.57								.03		.36							1.07			2.37	
Everett	Juniata																																
Forest City	N. Br. Susq.			*	.66							.47	.20									.51							.05			1.89	
Freeland	Lehigh	.02	.03		.01	.52			.01			.18	1.00		.01					.05		.63						T.	.40			2.86	
George School	Lower Del.			T.	.25	.04			.02			.85	T.							.05		.20							.38	.40		2.19	
Gettysburg	Potomac	T.			.12	.08			T.	.08		1.40								.05		.24							.15	.30		2.42	
Girardville	Schuylkill				.28	.23		.01				.85		.02						.04		.44							.33	.39		2.59	
Gordon	Lower Susq.				.40	.21						.70	.50							.16		.46							.40	.54		3.37	
Gouldsboro|||	Lehigh				.48				.02			.12	.92									.75								.61		2.90	
Graterford	Schuylkill			T.	.29	.12		.05	.03			1.23	.18																1.05	.59		3.54	
Hamburg	Schuylkill																																
Hanover	Lower Susq.																																
Harrisburg***	do.	.01		T.	.12	.15			.01			1.01	T.	T.					T.	.02	.03	.18							.68	.28		2.49	
Hawley|||	Upper Del.				.42							.90																	*	.80		2.12	
Holtwood|||	Lower Susq.				.10				.05			.28	.15							.10		.12								1.01	.60	2.50	
Huntingdon	Juniata	.05		T.	.31	.04						1.85								.14		.34								.12		2.85	
Jersey Shore	W. Br. Susq.				.24	.02						1.13	.15						.02	.10		.26										1.92	
Lancaster	Lower Susq.				.17	.11						.70										.28								.60	.90	2.76	
Lansford|||	Lehigh			T.	.53				.02			.17	.30		T.							.37	.01						T.	.02		.43	1.85
Lawrenceville	N. Br. Susq.	.05	.10	T.	.10							.70	T.						T.			.15								.05		1.15	
Lebanon	Lower Susq.	T.	T.		.21	.15			.02			1.06			T.					.04		.23								.18	.32	2.21	
Lewisburg	W. Br. Susq.	T.			.16	.13			.02			1.50	.10	T.	.10				T.	.08		.42								1.01		3.61	
Lloyd	W. Br. Susq.	T.			.18	.62						.82	T.							.24		.14										2.00	
Lock Haven	W. Br. Susq.																																
Lykens	Susquehanna			T.	.14	.13			.01			1.43		.04					T.	.04		.33										3.18	
Marcus Hook	Lower Del.				.19	.01		.06				.86										.20							*	.96		2.27	
Mauch Chunk	Lehigh	T.			.35	.54			.02			.93		T.						.02		.30							T.	.50		2.66	
Mifflintown	Juniata			T.	.12	.07			T.	.03		1.10	T.		.01					.03	.05	.38								.02	.09	1.90	
Montrose	N. Br. Susq.				.15	.95						.80										.20								.02	.20	2.30	
Mount Pocono	Upper Del.																																
Mount Union	Juniata																																
Muncy Valley	W. Br. Susq.				.37	.09						1.05		T.	.05				.03	.09		T.								.10		1.78	
Narberth	Lower Del.	T.		T.	.31	.08			.05			.97								.05		.39								1.08	.21	3.14	
Neshaminy|||	Lower Del.		T.	T.	.03	T.			.02			.09	.33							.03	T.	.10		.02						.01	1.00	1.63	
Palmerton	Lehigh				.24	.18			.07			.60								T.	T.	.22								.50		1.74	
Philadelphia (a.)	Lower Del.	T.	T.	T.	.18	.02			.07			1.28								.01		.35								1.08	.17	3.16	
Philadelphia (d.)|||	do.	T.	T.	T.	.24	T.			.07			.26	1.05							.07		.18	.13							.18	.95	T.	3.13
Phoenixville	Schuylkill				.23	.11						.77										.60	.20							.60	.20	1.91	
Pottstown	do.	.02		T.	.19	.08			.02			.86								.02		.35								.40	.64	2.58	
Pottsville	do.																																

Daily Precipitation for January, 1922.—Continued from page 3.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Davis Isl. Dam|||..	Ohio.....	.03	.01		.03	.45				T.		.29	.17	T.	.01				.02	.19	.02	.41		.02									1.65
Derry.....	Conemaugh.....	.10			.38	.16						.75		T.	.03				.15			.66											2.23
Ebensburg.....	Conemaugh.....	.09			.34	.13						.61	.07						.18	.13		.37											1.92
Edinboro.....	Allegheny.....	.14			.70	.18						.30	.15	T.	.03	T.			.39			.29	.01										2.23
Elk Lick.....	Youghiogheny.....	.25		T.	.40				.10			1.41	.13	T.				T.	.15	.08	.36							T.	T.	.10			2.98
Falls Creek.....	Allegheny.....				.36	.18						.19	.43	T.	.12			*	.32		.34												1.75
Franklin|||.....	Allegheny.....	.08	.14		T.	.42						.14	.14	T.	.02				.05	.38	.38	.02											1.77
Freeport|||.....	Allegheny.....	.05	.06		.02	.51						.19	.24	T.					.20		.42												1.69
Greensburg.....	Youghiogheny.....	.15	T.	T.	.41				.14	.01		.83	T.	.03	.01				.08	.08	.54				T.			T.					2.28
Greenville.....	Beaver.....	.32			.14							.28	T.	.08					.60		.28												1.70
Grove City.....	Beaver.....	.23			.35	.10						.14	.03	.04					.39	.09	.35												1.72
Herr's Isl. Dam|||..	Ohio.....	.01	.05		.05	.41				T.		.33	.30	T.	T.				T.	.15	.02	.50	T.										1.82
Indiana.....	Conemaugh.....	.08										.70		.05					.30	.32	.55									.03			2.03
Irwin.....	Youghiogheny.....	.01			.32	.16			T.	T.		.43	T.	T.					.07	.07	.25												1.81
Johnstown.....	Conemaugh.....	.09	.01	.02	.36	.06			.02			1.28	.05	.06	.05			T.	.17	.05	.45	.02	T.							.02			2.71
Ketner.....	Allegheny.....	.06			.47	.26				.02		.19	.02	.02					.27	.05	.38												1.74
Linesville|||.....	Beaver.....	.09	.14	.03	.02	.64						.15	.11	.06	.09			T.	.21	.30	.26												2.10
Lock No. 4 |||.....	Monongahela.....	T.	.12		.03	.40				T.		.37	.15	T.	T.				T.	.20	.47	T.											1.74
Lycippus.....	Conemaugh.....	.03			.47	.18				.08		1.35		.03					T.	.87	.60												3.61
New Castle|||.....	Beaver.....	T.			.14	.38			.02			.15	.04						.11	.29	.32												1.45
Newell.....	Monongahela.....	T.	T.	.35	.23							.36	.12						.01	.20	.42												1.69
North Shenango|||	Beaver.....																		T.	.37		.30	T.										
Parkers Landing|||	Allegheny.....	.10	.20		.10	.48						.30	.30	.10	.05	T.	T.		T.	.37		.30	T.										2.30
Pennline|||.....	Beaver.....	.04	.02		.04	.75						.10	.12	.04	.04		.01	T.	.22	.21	.20			T.									1.79
Pittsburgh**.....	Ohio.....	.05		T.	.28	.06			T.			.52	T.	.03	.03			T.	.05	.07	.03	.44											1.66
Ridgway.....	Allegheny.....																																
Saltsburg|||.....	Conemaugh.....	.04	.04		.02	.48				.06		.22	.47	.02	.09	T.				.19		.49	.03										2.15
Saegertown.....	Allegheny.....	.07	.20		.60							.32	.20						.43	.07	.22												2.11
Sharon|||.....	Beaver.....	.10			.71	.29						.12	.09	T.					.08	.34	.27												1.29
Somerset.....	Youghiogheny.....	.40		.10	.27				.06			2.10	.20	.24					.11	.18	.33	.20											4.19
Springdale.....	Allegheny.....	.06			.05	.50	.01			.01		.28	.20		.03				T.	.24	.58	.01											1.97
Summit|||.....	Beaver.....	T.	.05		.15	.84						.13	T.		.05	T.			.19	.21	.08												1.70
Tionesta.....	Allegheny.....	*	.22		*	.60						*	.22	.02					*	.47	.30												1.83
Turnerville|||.....	Beaver.....																																
Uniontown.....	Monongahela.....	.04	T.		.28	.16			.02	.02		1.58	T.		.04				.06	.12	.68												3.00
Vandergrift.....	Conemaugh.....	.07			.43	.15			.13			.15	.15	.05					.14	.19	.05	.50											1.71
Warren.....	Allegheny.....	.04			.56	.06	.02					.15	.15	.04					.16	.06	.24												1.48
Washington.....	Ohio.....	.01		.01	.35	.22			.04			.56	.01	.02					.07	.10	.07	.27											1.73
Waynesburg|||.....	Monongahela.....																																
Westford|||.....	Beaver.....	T.	.02		.15	.32						.22	.14	.04	.05				.35	.16	.22												1.67
West Newton|||.....	Youghiogheny.....		.10		.03	.25				T.		T.	.65		T.				T.	.14	.43												1.60
Lake Drainage.																																	
Erie***.....	Lake Erie.....	.05	.06	T.	.55	T.	T.		T.			.38	.08	.02	T.	T.	.01		.42	.14	.01	.25	T.			T.	T.					1.97	
West Bingham.....	Genesee.....	.20			.10	.25						.50	.10						.05	.10	.30												1.60

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

Daily Temperatures for January, 1922.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
Altoona.....	Maximum ...	34	19	39	39	52	32	32	29	41	44	34	23	21	25	45	32	22	31	51	44	33	30	20	17	19	22	19	29	43	43	42	32.5
	Minimum	14	9	9	34	34	26	18	13	26	32	27	18	-1	5	11	12	2	21	30	19	23	25	4	-4	-5	-8	-2	17	23	9	16	14.7
Brookville.....	Maximum	28	20	38	50	52	28	32	40	41	44	32	22	25	34	43	26	35	40	41	39	31	30	18	18	24	28	32	37	44	49	50	35.2
	Minimum	-3	-2	11	33	27	16	9	5	22	23	19	13	8	9	15	-3	-10	14	25	15	21	0	-5	-12	-15	-11	-5	3	12	3	12	7.9
Catawissa.....	Maximum	34	18	28	39	54	38	37	37	46	49	28	29	30	33	48	34	28	34	45	32	36	40	23	24	27	26	22	30	44	39	40	34.6
	Minimum	9	7	7	23	32	31	22	10	27	28	21	12	-2	4	12	6	-6	24	31	25	22	10	6	-3	-2	-6	-3	20	23	-7	-4	12.2
Chambersburg.....	Maximum	42	25	29	34	60	42	34	33	49	49	37	27	25	28	49	40	23	33	41	46	38	40	33	21	26	25	20	28	43	42	42	35.4
	Minimum	20	14	13	28	32	27	19	14	25	29	26	20	-3	0	4	16	-3	21	31	30	29	31	12	8	-2	-2	4	19	27	11	5	16.8
Emporium.....	Maximum	32	19	37	46	52	30	28	36	40	40	32	23	24	42	25	31	38	45	38	33	29	16	17	20	25	30	32	40	42	46	32.6	
	Minimum	10	1	10	34	30	22	13	4	31	28	18	15	2	14	22	5	-9	24	33	16	25	8	-4	-11	-13	-14	-11	6	22	2	12	11.1
Erie.....	Maximum	29	21	40	55	54	31	28	45	44	37	29	26	24	34	40	22	37	41	40	28	29	26	12	17	20	23	28	28	31	35	50	32.4
	Minimum	13	13	21	39	30	25	23	30	28	22	16	16	17	21	17	14	19	16	22	16	21	10	5	7	5	7	14	19	21	18	30	19.0
Grove City.....	Maximum	31	23	34	51	53	31	32	39	42	42	36	23	23	25	40	27	38	40	40	37	29	28	16	15	22	28	30	36	35	44	51	33.6
	Minimum	9	8	14	32	29	24	15	17	30	24	23	15	13	12	17	7	0	23	15	15	23	11	-2	-7	-11	-4	9	12	20	12	18	14.4
Harrisburg.....	Maximum	35	22	30	34	52	38	33	32	47	48	35	29	26	28	44	30	29	36	44	43	37	40	20	19	19	26	23	28	40	40	37	33.7
	Minimum	17	14	19	30	33	30	24	19	27	35	23	19	14	14	19	16	6	26	36	30	29	18	12	10	10	4	6	23	26	22	12	20	18.4
Holtwood.....	Maximum	40	27	33	33	58	40	32	34	50	52	32	33	29	31	42	31	37	46	39	43	45	24	23	25	29	26	31	42	47	43	36.3	
	Minimum	29	13	15	20	32	29	22	17	24	30	21	9	9	9	17	23	11	15	30	34	29	30	14	9	9	6	6	12	18	13	5	18.3
Indiana.....	Maximum	34	15	39	52	59	32	33	40	41	45	38	25	25	26	44	25	38	41	46	43	34	32	23	20	23	31	33	37	43	48	51	36.1
	Minimum	7	7	10	35	31	27	14	16	31	30	23	17	9	6	19	5	5	27	37	20	27	22	5	2	0	2	11	18	21	16	22	16.1
Mifflintown.....	Maximum	39	30	26	37	52	40	40	32	42	48	36	30	23	30	40	34	23	32	43	38	36	37	24	26	27	29	21	28	44	40	36	34.3
	Minimum	28	14	15	26	32	31	28	12	24	34	25	20	5	3	10	17	-5	23	30	26	27	21	10	5	-5	-5	-1	17	26	7	10	16.5
Philadelphia.....	Maximum	42	21	32	40	53	41	37	32	42	48	38	35	31	34	45	37	37	40	50	50	40	44	25	24	25	29	31	32	40	41	43	37.4
	Minimum	20	13	14	32	37	33	23	27	30	34	27	22	18	26	29	27	22	32	40	35	32	22	16	14	13	9	14	24	32	27	25.0	
Pittsburgh.....	Maximum	30	23	41	59	56	32	30	40	43	44	42	24	26	39	42	28	40	46	49	35	34	30	18	18	25	35	34	39	40	48	53	36.9
	Minimum	12	10	19	40	30	24	20	23	32	32	22	18	16	17	23	17	16	34	31	21	26	11	6	6	9	11	18	22	23	24	28	20.7
Reading.....	Maximum	36	18	30	45	51	39	34	32	45	47	37	30	28	31	46	28	32	38	44	41	36	41	22	21	22	28	27	31	44	41	39	34.6
	Minimum	16	11	14	30	34	29	24	20	30	37	22	20	13	18	27	17	10	31	37	32	28	19	13	10	10	6	8	21	29	19	15	21.0
Scranton.....	Maximum	35	10	26	39	31	34	30	34	43	42	29	30	26	27	41	27	34	38	44	40	34	37	17	17	14	20	27	29	40	36	41	32.1
	Minimum	10	3	5	26	3.2	28	18	13	27	26	16	16	10	18	23	12	6	28	35	25	24	12	8	4	-2	2	21	20	14	15	16.1	
Somerset.....	Maximum	28	18	38	53	55	28	36	35	38	43	35	20	21	26	42	35	34	40	50	40	33	30	29	15	20	27	20	30	45	51	33.7	
	Minimum	10	6	10	36	28	23	15	15	28	25	20	11	5	6	8	16	-4	26	38	34	25	10	-5	-8	-10	-7	9	15	21	8	16	13.8
State College.....	Maximum	31	18	27	37	50	31	28	30	44	43	36	23	24	45	25	25	34	47	43	32	30	16	15	17	16	25	27	37	36	42	30.5	
	Minimum	14	17	11	18	31	26	18	10	26	30	20	15	9	11	19	10	-5	22	31	19	21	16	3	-1	-3	-9	-4	13	20	9	11	13.8
Towanda.....	Maximum	35	10	25	39	52	35	29	37	41	41	28	27	27	46	28	25	38	44	44	32	34	14	16	13	19	21	25	33	36	35	30.8	
	Minimum	9	3	1	25	35	28	19	9	27	27	18	15	-5	-3	21	8	-13	22	35	16	22	11	2	-13	-5	-14	-10	14	18	-2	-1	10.3
Uniontown.....	Maximum	35	24	42	60	62	34	30	43	44	47	42	27	27	31	45	34	41	50	52	45	36	36	29	19	29	33	33	31	33	54	55	38.8
	Minimum	17	9	15	39	34	27	17	17	32	29	27	15	11	13	31	15	6	27	38	26	29	28	12	8	5	12	21	24	26	33	20	20.8
Warren.....	Maximum	30	20	36	52	52	30	30	45	40	40	30	29	22	24	30	22	23	40	40	34	26	22	20	18	20	28	30	30	32	25	30	30.6
	Minimum	15	6	10	36	30	24	15	11	28	26	24	20	12	13	22	9	-4	20	34	15	12	6	-5	-12	-10	-11	-5	1	15	2	17	12.1
Wellsboro.....	Maximum	35	12	23	35	48	33	25	35	40	38	28	23	22	22	40	25	30	35	42	42	30	28	13	13	14	17	20	22	33	20	30	28.2
	Minimum	10	-1	0	13	30	24	15	12	25	17	17	12	-6	-1	12	5	-13	20	33	12	17	8	-8	-15	-11	-19	-16	-2	8	-4	3	6.4
Williamsport.....	Maximum	38	24	24	35	52	37	33	31	43	47	36	28	21	28	45	38	25	33	38	42	35	37	31	20	21	28	23	28	40	38	34	33.2
	Minimum	23	7	10	23	34	30	23	12	23	30	24	14	3	10	18	9	-4	24	32	23	22	22	24	4	-4	-5	-8	-6	17	25	7	10	14.4

MAR 29 1922

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

VOL. XXVII PHILADELPHIA, PA., FEBRUARY, 1922. No. 2.

GENERAL SUMMARY.

The month as a whole was abnormally warm and dry. There was nothing unusual about the temperature extremes, and while the rainfall was light there was nearly the usual amount of snow. The heaviest snowfall, except in the northwestern counties, occurred on the 15th. and was mixed with rain and sleet. It was not nearly so heavy a storm as the one that occurred near the end of January, but the water content of the snow and sleet was so great that the obstruction to traffic was considerable. The heavy snow and sleet was confined to the mountain districts and the southeastern counties where it was from 4.0 to 8.0 inches in depth. The storm was followed by a cold wave that froze the snow and sleet into almost a solid coating of ice. However the cold was of short duration, and the snow mostly disappeared during a five days warm period that prevailed from the 20th to the 24th inclusive. The ground was comparatively bare and free from snow during about one-half of the month, but the winter grains were little harmed as the most unfavorable temperature conditions occurred while the snow covering was on. During the warm period, above mentioned, the ice broke up and flowed out of most of the streams. The water rose considerably, but not to the flood stage as there were no rains of consequence at the time. The warm period afforded a fine opportunity for farmers to prune and spray their orchards, which was quite generally done at that time. High winds and gales were reported from the western portion of the State on the 23d, reaching 62 miles per hour at Pittsburgh and Erie, but were much less severe in eastern districts.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 75 stations, was 33.0°, or 5.5° above the February normal. This mean has been exceeded in February only four times since 1888 when the State Weather Service was established. The highest mean recorded was 38.3° at Newell, and the lowest was 25.4° at Montrose. The highest temperature recorded was 74° at Beaver Dam, Mifflintown, and Lancaster, on the 23d. The lowest temperature was -19° at Ebensburg on the 17th.

PRECIPITATION.

The average precipitation for the State, from rain, and melted snow and sleet, as shown by the records from 122 stations, was 1.99 inches, or 0.90 inch below the February normal. The greatest monthly amount recorded was 3.61 inches at Somerset, and the least was 0.67 inch at Neshaminy Falls. The greatest 24-hour precipitation was 1.06 inches at York Haven on the 15th. The monthly snowfall average for the State was 7.7 inches; the heaviest being 21.0 inches at Gordon, while Free-land was a close second with 17.5 inches. More than one-half of the total snowfall for the month occurred on the 15th.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.		
				8 a. m.	8 p. m.		Average.	* Highest.	Direction.
Erie.....	170.0	297.0	57	76	76	10,705	15.9	62	w.
Harrisburg.....	154.5	299.7	52	76	64	4,769	7.1	38	s.
Philadelphia.....	154.8	299.7	52	78	67	6,997	10.4	34	s.
Pittsburgh.....	123.8	298.2	42	76	65	8,900	13.2	62	w.
Reading.....	140.0	300.0	47	79	75	4,976	7.4	30	nw.
Scranton.....	.....	.....	.....	80	67	5,053	7.5	32	sw.

* For any five-minute period.

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	28.4	63	-31	2.50	4.97	0.89	7	11	11
1889.....	23.0	60	-27	1.96	3.87	0.97	7	9	12
1890.....	37.0	79	-7	4.32	6.39	2.28	6	8	14
1891.....	34.8	70	-7	4.61	8.29	2.13	6	8	14
1892.....	31.6	62	-18	1.75	4.48	0.43	7	7	15
1893.....	27.3	60	-16	5.92	9.28	2.92	6	8	14
1894.....	27.6	64	-24	3.53	5.59	1.62	8	9	11
1895.....	20.2	60	-26	1.22	3.47	0.17	10	10	8
1896.....	29.4	65	-21	4.90	9.08	1.94	9	7	13
1897.....	30.6	67	-14	3.28	6.67	1.04	7	8	13
1898.....	29.4	72	-16	2.23	4.05	0.96	8	8	12
1899.....	22.7	67	-39	4.05	10.22	0.98	8	7	13
1900.....	27.1	81	-17	4.22	7.75	1.00	8	6	14
1901.....	21.7	57	-22	0.96	2.75	0.27	10	9	9
1902.....	23.9	64	-24	3.99	7.43	0.45	9	7	12
1903.....	30.5	68	-17	4.49	6.13	1.90	10	7	11
1904.....	21.8	68	-27	2.41	4.80	0.92	10	7	12
1905.....	20.8	59	-25	1.70	2.83	0.44	10	8	10
1906.....	28.0	79	-21	1.70	3.80	0.36	12	7	9
1907.....	22.8	56	-20	1.91	4.37	0.66	12	7	9
1908.....	24.8	64	-29	4.65	8.15	2.51	10	7	12
1909.....	35.8	73	-9	4.84	9.86	2.40	6	7	15
1910.....	26.6	65	-22	3.59	5.39	1.41	9	7	12
1911.....	31.0	66	-8	2.27	3.76	0.85	7	6	15
1912.....	23.7	69	-27	2.20	4.05	0.37	11	8	10
1913.....	27.4	67	-9	1.84	4.61	0.88	12	5	11
1914.....	21.8	65	-27	2.78	6.20	1.30	11	6	11
1915.....	33.3	73	-9	3.90	6.95	1.85	9	5	14
1916.....	25.7	67	-22	3.08	5.86	1.30	8	7	14
1917.....	25.6	68	-29	1.46	3.37	0.35	9	9	10
1918.....	28.2	69	-34	2.46	4.82	0.55	10	8	10
1919.....	32.0	66	-7	2.23	4.27	1.03	12	6	10
1920.....	25.6	62	-20	2.44	5.23	0.70	9	8	12
1921.....	32.8	76	-15	2.59	4.79	1.41	8	8	12
1922.....	33.0	74	-19	1.99	3.61	0.67	9	9	10

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	4.0	12.0	24	2.5	17	18
Phillipsburg.....	Delaware.....	3.3	8.0	25	0.9	1	22
Mauch Chunk.....	Lehigh.....	6.0	6.0	24	4.6	22	15
Wilkes-Barre.....	Susquehanna.....	6.6	16.6	25	3.5	1	20
Williamsport.....	Susquehanna.....	4.5	11.3	24	1.9	19	20
Harrisburg.....	Susquehanna.....	.....	16.3	23	.....	.....	17
Freeport.....	Allegheny.....	8.5	11.7	25	6.5	16	22
West Newton.....	Youghiogheny.....	2.7	5.8	21	1.2	10	20
Greensboro.....	Monongahela.....	.....	.....	.....	.....	.....	20
Pittsburgh.....	Ohio.....	7.1	11.5	21	3.7	18	22
Beaver Dam.....	Ohio.....	10.6	16.2	22	6.1	18	30

Climatological Data for February, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation of in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																			
Altoona.....	Blair.....	1,615	35	32.4	+6.6	70	23	-5	17	34	1.86	-0.27	0.41	14.0	10	11	10	7	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	33	37.2	+7.4	70	23†	-4	17	36	2.64	-0.86	0.73	9.5	7	1	20	7	Prof. Chas H. Rominger
Bustleton.....	Philadelphia.....	125	3																Experiment Station.
Carlisle.....	Cumberland.....	467	55	34.2	+4.8	71	23	3	17	38	2.01	-0.92	0.65	6.5	6	18	3	7	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	25	31.4	+2.3	69	23	-4	17	41	2.32	-0.38	0.60	12.5	12	12	7	9	H. H. Yetter.
Center Hall.....	Center.....	1,272	26	33.3	+7.4	66	23	0	17	40	1.21	-1.14	0.37	5.0	4				S. W. Smith.
Chambersburg.....	Franklin.....	631	22	34.6	+3.8	73	23	0	17	39	2.05	-0.86	0.69	7.4	11	5	13	10	William B. Spear.
Clearfield.....	Clearfield.....	1,120	12	32.8	+6.0	72	23	-7	17	41	1.60	-1.37	0.45	13.0	9	15	7	6	E. W. Hess.
Coatesville.....	Chester.....	380	34	34.0	+4.1	69	23	-3	17	44	2.85	-1.28	0.88	9.1	8	4	16	8	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	12	32.8		70	23	0	17	29	2.44		0.57	9.5	10	12	6	10	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	34	30.9	+6.2	69	23	-11	17	38	1.99	-1.06	0.46	6.8	11	6	7	15	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	21	34.4	+6.3	71	23	-1	17	36	2.29	-0.89	0.70	11.0	7	10	8	10	E. K. Hershey.
Everett.....	Bedford.....	1,080	24																J. E. Thropp Co.
Freeland.....	Luzerne.....	1,873	7	28.4		60	23	-13	17	30	2.73		0.70	17.5	11	2	11	15	Theo. Reichmann.
George School.....	Bucks.....	190	15	33.2	+3.5	69	23	-2	17	38	1.93	-1.14	0.67	6.0	9	11	8	9	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	48	36.0	+5.7	73	23	1	17	33	1.91	-0.89	0.74	9.2	8	7	13	8	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	18	31.2	+5.9	67	23	-3	17	44	2.41	-1.02	0.54	21.0	9	13	5	10	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	29	32.0	+3.0	68	23	-2	18	32	2.87	-0.57	0.86	12.0	9	11	9	8	State Sanatorium.
Hanover.....	York.....	360	18	36.0	+4.3	70	23	-1	17	35	1.72	-1.01	0.56		8	9	12	7	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	601	52	34.3	+4.4	69	23	4	17	28	2.29	-0.41	0.98	8.0	11	6	11	11	U. S. Weather Bureau.
Huntingdon.....	Huntingdon.....	650	34	33.4	+5.0	73	23	-1	17	42	2.14	-0.70	0.41	10.5	10	10	8	10	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	2																C. B. McCullough.
Kennett Square.....	Chester.....	340	50																W. P. Mercer.
Lancaster.....	Lancaster.....	255	34	34.1	+4.3	74	23	-8	17	44	1.47	-1.24	0.60	9.0	8	12	9	7	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	24	30.7	+7.7	67	23	-11	17	40	1.40	-0.49	0.50	11.0	6	10	4	14	C. P. Darling.
Lebanon.....	Lebanon.....	469	81	34.0	+5.3	72	23	0	17	36	2.17	-1.27	0.64	7.7	11	15	4	9	S. B. Benzing.
Lewisburg.....	Union.....	450	47	31.0	+5.2	65	23	-4	1	43	2.16	-0.65	0.50	7.5	10	15	2	11	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	34																Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	7	31.8		71	23	-3	18	45	1.92		0.55	10.0	10	15	5	8	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	2	35.3		69	23	3	17	35	3.01		0.99	4.3	13	15	7	6	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	32	31.0	+4.0	61	23	-15	17	38	2.70	-1.23	0.78	11.5	11	8	13	7	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	18	32.5	+5.8	74	23	0	17	42	1.87	-0.43	0.55	9.5	9	12	2	14	Wellington Smith.
Montrose.....	Susquehanna.....	1,658	19	25.4	+5.1	60	23	-18	17	44	1.15	-0.99	0.25	11.0	5	11	5	12	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	20																Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	10	29.5		64	23	-10	17	36	1.88		0.65	5.3	9	9	8	11	A. H. Boatman.
Narberth.....	Montgomery.....	300	3	34.1		70	23	-1	17	34	2.28		0.82	6.4	12	9	9	10	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	33	32.6		70	23	-4	17	42	0.67		0.40	5.5	10	12	3	13	North Springfield Water Co.
Palmerton.....	Carbon.....	398	5	30.3		64	23	-4	17	38	2.20		0.40	8.6	9	10	11	7	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	51	36.7	+3.9	71	23	4	17	35	2.62	-0.76	0.75	5.2	13	8	8	12	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	6	35.8		69	23	4	17	31	3.04		0.88	5.6	12				Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	11	34.2		68	23†	0	17	39									North Springfield Water Co.
Quakertown.....	Bucks.....	496	37	32.0	+3.8	67	23	-3	17†	41	2.99	-0.78	0.98	8.3	9	7	11	10	John E. Benner.
Reading.....	Berks.....	325	52	34.6	+5.8	72	23	2	17	32	2.69	-0.81	0.87	10.4	12	8	8	12	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	11	34.6		70	23	0	17	27	2.32		0.87	6.8	7	8	10	10	S. A. Clarke.
Scranton.....	Lackawanna.....	805	27	31.5	+4.6	67	23	-7	17	28	1.55	-1.17	0.56	8.6	11	5	9	14	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	32	32.6	+5.5	69	23	-5	17	41	1.35	-1.58	0.37	5.5	6	13	11	4	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	26	35.6		69	23	2	17	36	2.57	-0.68	0.95	5.5	8	9	12	7	W. S. Guiles.
State College.....	Center.....	1,217	37	31.2	+5.7	65	23†	-5	17	35	1.78	-1.05	0.70	9.2	9	8	13	7	Prof. Wm. Frear.
Stroudsburg.....	Monroe.....	500	10	31.6		58	22†	-5	18	40	2.14		0.75	8.0	6				H. Q. Snyder.
Towanda.....	Bradford.....	754	27	31.6	+2.0	66	23	-7	17	38	0.80	-1.14	0.25	5.2	7	7	7	14	Hiram E. Bull, C. E.
Wellsville.....	Tioga.....	1,419	56																George W. Hill.
West Chester.....	Chester.....	455	84	34.1	+3.3	69	23	-2	17	34	2.71	-1.13	1.05	7.6	9	13	8	7	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	35	32.4	+5.8	66	23	-5	17	34	1.29	-1.29	0.37	7.2	10	12	2	14	Jacob April.
York.....	York.....	400	34	35.2	+5.6	73	23	-12	17	46	1.40	-1.65	0.58	10.0	9	10	13	5	York Water Co.
Ohio Drainage.																			
Beaver Dam††.....	Beaver.....	700	29	37.8		74	23	3	17	46	1.34	-1.03	0.31	2.1	11	5	3	20	U. S. Engineer.
Bradford.....	McKean.....	1,427	7	30.0		69	23	-7	17	41	1.71		0.40	10.7	11	9	8	11	City Engineer.
Bradys Bend.....	Armstrong.....	930	4	30.6		68	23	-11	17	45	1.72		0.45	2.2	13	6	8	14	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	31	28.8		70	23	-12	17	48	1.47	-0.97	0.45		6	12	8	8	John Fawcett.
Claysville.....	Washington.....	1,150	13	36.5	+6.7	71	22	-4	17	37	1.30	-1.30	0.27	1.2	10	13	6	9	J. L. Melvin.
Corry.....	Erie.....	1,400	10	29.2		64	22	-10	17	37	1.96		0.58	10.0	17	7	12	9	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	25	34.4	+6.3	70	22	-9	17	38	2.53	-0.48	0.55	6.5	9	6	12	10	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	4	30.8		69	23	-19	17	41	3.11		0.60		9	8	14	6	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	5	33.2		71	23	-4	17	37	2.73		0.76	10.0	8	6	6	16	J. D. Miller.
Franklin.....	Venango.....	1,000	49	31.0	+6.4	68	22	-1	17	43	2.08	-0.87	0.50	1.0	11				F. E. Dixon.
Greensburg.....	Westmoreland.....	1,150	14	36.4	+6.4	72	23	-3	17	37	2.23	-0.72	0.56	6.6	13	6	8	11	Westmoreland Water Co.
Greenville.....	Mercer.....	950	27	32.2	+6.9	68	22	0	17	40	1.90	-0.73	0.73		9				J. R. Marks.
Grove City.....	Mercer.....	1,256	15	33.4	+7.8	68	22	-1	17	37	1.82	-0.62	0.43	5.4	14	2	9	17	Prof. H. W.

Daily Precipitation for February, 1922.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh	.71				.07				.06	.03	.05	.30		.26	.13			.02					.03									1.66
Altoona	Juniata	.25				.05		.02				.18	.41	.06		.27	T.		.18	.08				T.				.36					1.86
Ansonia|||	N. Br. Susq.	.19	T.	T.	T.	.04	T.				.03	T.	.07	.18		.05	.04		T.					.08				.28					0.96
Arendtsville	Potomac																																
Austin	W. Br. Susq.																																
Bellefonte	do.	.19										.40	.18			.20																	1.09
Bethlehem	Lehigh	.73				.11				.07			.12	.55		.42					.30								.64				2.64
Bloersville	Lower Susq.												.37			.32													.50				1.49
Bustleton	Lower Del.																																
Carlisle	Lower Susq.	.34			T.					T.	T.	.11	T.	.46		.65			T.	.12				T.					.33				2.01
Catawissa	N. Br. Susq.	.10	.25		T.	.01				.10		.14	.60			.39			.03	.15				.01			.04			.50			2.32
Center Hall	Susquehanna	.20											.34			.30													.37				1.21
Chambersburg	Potomac	.02	.51		.03	.05	T.		.02		.03	.04	.12			.69			T.	.13	T.							.41					2.05
Clearfield	W. Br. Susq.	.45				.11	T.		.04		.18	.16				.05				.40				.11				.10					1.60
Coatesville	Lower Del.	.88			.06	.11			.20		.04		.04			.87								T.				.65					2.85
Colebrook	Lower Susq.	T.	.57		.02	.07	T.		.10			.08	.45			.57				.08	T.			.06				.44					2.44
Cresson|||	Juniata	.30				.05						.30	.93			.44				.15		.15											3.07
Doylestown	Lower Del.	.73			T.	.15					.07	.04	.11	.29		.62											.75		.49				2.50
Driftwood	W. Br. Susq.																																
Emporium	W. Br. Susq.	.11	.39	T.	T.		.10		T.	.05		.15	.03	T.		.20				.20	.25			.05	T.			.46	T.				1.99
Ephrata	Lower Susq.	.70			.13					.14		.06	.24			.54				T.								.48					2.29
Everett	Juniata																																
Forest City	N. Br. Susq.		.08			.06				.03		.04	.07			.26				.28				.04				.51					1.37
Freeland	Lehigh	.50			T.	.06	.01			.10	T.	.70	.14	T.		.12	.44			.12					.14			.40					2.73
George School	Lower Del.	.65			T.	.05	.14			T.	.04	.02	.28			.67					.04							.04					1.93
Gettysburg	Potomac	.33			.04	.05			.03	T.	T.	T.	.12			.74				.15								.45					1.91
Girardville	Schuylkill	.31	.48			.08			.14		.09	.64				.53			.06	.11				.03				.53					3.00
Gordon	Lower Susq.	.45			.06					.08	.04		.54			.49				.15				.06				.54					2.41
Gouldsboro|||	Lehigh	.75						.15					.38			.06	.35	.15										.51					2.56
Graterford	Schuylkill	.92			.07		.02		.07			.10				.65				.11						.12		.09	.51				2.48
Hamburg	Schuylkill	.96				.10			.20		.06	.21				.70				.08								.42					2.87
Hanover	Lower Susq.	.39			.03	.04			.07			.03	.04			.56												.56					1.72
Harrisburg***	do.	.18	.21		T.	.04	T.	T.	.06		.01	.39			.98				.04	.07				T.			.03	.28					2.29
Hawley|||	Upper Del.				T.					T.						.60								T.		T.							1.15
Holtwood|||	Lower Susq.	.35				.08	T.			.10	.03	.03				.50	.20											.60					1.89
Huntingdon	Juniata	.24				.04				.02	.18	.35	.38			.34				.12	.06							.41					2.14
Jersey Shore	W. Br. Susq.					.20	.11			.16	.14		.12	.09		.60												.05					1.47
Lancaster	Lower Susq.																											.35					2.36
Lansford|||	Lehigh	.73	.03		T.	.08		.01		T.	.08		.50	.10	.10	.40			.17	T.				.13			.10		.25				1.40
Lawrenceville	N. Br. Susq.	.05	T.			T.				T.			.10	.10		.40												.25					2.17
Lebanon	Lower Susq.	.64			.01	.05	T.		.02	.02	.03	.15	.30			.48				.10				T.				.37					2.16
Lewisburg	W. Br. Susq.	.24			T.	.03				.03	.20	.32	.25			.35				.20	.04							.50					1.50
Lloyd	W. Br. Susq.	.24				.10			.09		.10	.18				.30				.06								.43					
Lock Haven	W. Br. Susq.																																
Lykens	Susquehanna	.30			T.	.03	T.		.01	.02		.31	.23			.55				.14				.05				.28					1.92
Marcus Hook	Lower Del.	.26	.73		.05	.05	.03		.04		.09		.09			.68				.13	.09							.84					3.01
Mauch Chunk	Lehigh	.78			.11				.03	.01	.11	.44	.05			.50								.05				.52					2.70
Mifflintown	Juniata	.43			.02				T.	T.	.05	.47	.08			.40				.14	.02							.26					1.87
Montrose	N. Br. Susq.	.20					.20									.25				.25								.25					1.15
Mount Pocono	Upper Del.																																
Mount Union	Juniata																																
Muncy Valley	W. Br. Susq.	.65				.07				T.	.04	.12	.15			.36				.10				.05				.34					1.88
Narberth	Lower Del.	.33			.08	.13	.01		.03	.05	.06	.02	.13			.60					T.			.02				.82					2.28
Neshaminy|||	Lower Del.	.10			.02	T.			.03	.01	.02	.02				.40	.02			.01								.04					0.67
Palmerton	Lehigh	.26	.40		T.	T.	T.		.05		.15	.28				.45				.15								.40					2.20
Philadelphia (a.)	Lower Del.	.21	.54		.04	.08	.10		.05		.03	.08				.73				.04				.01		.03		.68					2.62
Philadelphia (d.)|||	do.	.88	.03		T.	.18	.03	.02		.03	.12		.07			.48	.26			.04													

Daily Precipitation for February, 1922. -Continued from page 7.

Stations.	Drainage Basin.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Davis Isl. Dam	Ohio	.14					.24	T.	T.		.10	.17	.05	.38		.25	T.	.02		.22	.07		.05		.02	T.		.23					1.94				
Derry	Conemaugh	.30					.13			.11		.08	.55		.50					.25	.19			T.				.42					2.53				
Ebensburg	Conemaugh	.48					.06					.36	.20	.60		.33				.32	.29							.47					3.11				
Edinboro	Allegheny	.02	.01	.02			.67	.07				.15	.02	.04			.07			.04	.02		.26	.06				.13					1.58				
Elk Lick	Youghiogheny	.24			T.	T.	.10	.10		T.		.34	.45	T.		.69	T.			.05								.76					2.73				
Falls Creek	Allegheny	.28	T.				.09			T.	.03	.28	T.	.33		.09				.40				.04	T.			.30					1.84				
Franklin	Allegheny	.23			T.		.50	.02	.04		.06	.09	.40		T.					.42	.03	.04			T.			.25					2.08				
Freeport	Allegheny	.26				.16	.16	T.	T.	.06	.06		.08		.22	T.				.34	.16	.04	.04	T.	T.			.35					2.21				
Greensburg	Youghiogheny	T.	.17		T.	T.	.02	.02	T.	.06	.01	.15	.56	.05	.54	.22	T.			.21	.20	T.		T.	T.			.43	T.				2.23				
Greenville	Beaver	.09			T.		.73	.06			.12		.38			.34	.01		T.	.21	.20	T.		T.	T.			.01	T.				1.90				
Grove City	Beaver	.18					.36		.25	.09		.14	.43	.01		.01	.02	.01		.13	.05				.16	.01		.13					1.82				
Herr's Isl. Dam	Ohio	.20			T.		.20	T.	.01	T.	.06	.12	.05	.41	T.	.20	T.	T.	T.	.15	.23		.03		.05	T.		.26					1.97				
Indiana	Conemaugh	.33					.05	T.		.05		.12	.12	.45		.22				.33	.42		T.				.40						2.49				
Irwin	Youghiogheny	T.	.18			T.	.04	T.		.06		.15	.56	.02		.29	T.			.22	.16			T.	T.		.43						2.11				
Johnstown	Conemaugh	.06	.26	T.		.01	.09	.04	.04	.02	T.	.17	.84	T.		.55	.03	T.	.01	.33	.08			.02	T.			.47	T.				3.02				
Ketner	Allegheny	.24		.02			.30			.05		.10	.35	.03		.08				.35	.08						.36						1.96				
Linesville	Beaver	.22			T.		.43	T.	.19		.07	.10	.03	.14			T.	.11		.22					.01		.09						1.61				
Lock No. 4	Monongahela	.25					T.				.04	.12	T.	.36		.20	T.			.16	.07	T.			T.		.41						1.61				
Lycippus	Conemaugh	.28						.04			.08		.22	.52	.18		.45				.35			T.	.02			.49					2.63				
New Castle	Beaver						.32				.07	.02	.71							.35					.04		.18						1.69				
Newell	Monongahela	.16						T.		.02	.13		.12				.04				.28						.45	T.					1.20				
North Shenango	Beaver				.24		.51		.07			.17								.35							*	.17					1.51				
Parkers Landing	Allegheny	.20					.20	T.	.03	T.	.03	.13		.10	.03	.05		T.		.40	.04	T.			T.	T.		.21	T.				1.42				
Pennline	Beaver	.25			T.		.22			.04	.06	.11	.04	.22	.03		.22	T.	.03		.22	.02		T.		.02	T.		.09				1.35				
Pittsburgh	Ohio	.02	.08	T.		T.	.14	.01	T.	.04		.15	.42	T.		.22	T.	T.	.14	.04	T.	.02		.01	T.		.14	T.					1.57				
Ridgway	Allegheny	.40					.39					.11				.37				.40							.59						2.26				
Saltsburg	Conemaugh	.27					.03	T.	.03		.07	.13	.12	.57		.23	.13			.23	.07		T.		T.		T.	.35	T.				2.23				
Saegertown	Allegheny		.09				.43		T.	.10	.05			.41	T.					.28					T.								1.26				
Sharon	Beaver	.09					.43		T.	.10	.05			.41	T.					.28					T.								3.61				
Somerset	Youghiogheny	.15	.05			.05	.05	.15		.06	.21		.32	.42		.60	T.	T.	.23	.15	.42		.20				.55						2.20				
Springdale	Allegheny	.22					.14	.02	.02	T.	.05	.14	.09	.45	T.		.22	T.		.26	.22		.06				.31						1.14				
Summit	Beaver	.23					.25		.05	T.	.02	.15		.29						.05					T.			.10					1.51				
Tionesta	Allegheny	.28	.01		T.		.40				.09		.32							.33				.03			.05						1.27				
Turnerville	Beaver				.50			.02			.10	.35								.20							.10						1.61				
Uniontown	Monongahela	T.	.12				.12	.04		.05		.28	.10			.21				.05	.28						.36						2.89				
Vandergrift	Conemaugh	.30					.12	.05		.09		.07	.47	.08		.48	.22			.34	.33			.05			.29						1.51				
Warren	Allegheny	.10	.12	.04			.15	.20		.02		.10	.26	.10	T.					.24				.06	.02		.06		.04				1.57				
Washington	Ohio	.04	.12				.11			.03		.09	.43			.15				.21	.06			.03			.19	.11									
Waynesburg	Monongahela						.22	T.	T.	.07		.10	T.	T.						.30			T.	T.				.03					0.92				
Westford	Beaver	.20										.04	.15	T.	.63		.21	.03	T.		.16	.25			T.	T.							2.17				
West Newton	Youghiogheny	.20									.04	.15	T.	.63		.21	.03	T.		.16	.25							.46									
Lake Drainage.																																					
Erie***	Lake Erie	.14	.14	.02	T.	T.	.39	.01	T.	T.		.07	.07	T.	T.		T.		.14	T.		.02		.13	T.			.12	T.				1.25				
West Bingham	Genesee	.12	.10				.10	T.	T.			.26	.10	.10		.10				T.	.16			.07				.20					1.31				

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch.

§ Incomplete or missing.

Daily Temperatures for February, 1922.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
Altoona.....	Maximum ...	40	50	42	35	33	39	34	27	36	39	51	47	38	28	30	30	21	34	44	52	50	69	70	54	41	42	39	37	.....	.....	.....	41.1
	Minimum	18	35	31	22	27	32	26	15	18	32	32	28	27	3	19	9	-5	11	28	34	28	35	40	20	16	22	32	25	.....	.....	.....	23.6
Brookville.....	Maximum	49	49	36	35	43	37	29	28	35	39	52	35	28	30	34	19	20	45	51	61	53	69	70	31	38	44	40	37	.....	.....	.....	40.4
	Minimum	16	31	22	22	19	27	15	12	15	23	30	28	8	5	13	-9	-12	12	32	25	20	32	22	15	12	11	30	9	.....	.....	.....	17.3
Catawissa.....	Maximum	41	55	41	35	40	47	36	35	39	44	39	33	36	34	32	22	20	32	50	59	46	58	69	38	42	47	38	39	.....	.....	.....	41.0
	Minimum	0	35	35	24	22	32	27	16	15	26	34	26	20	4	15	6	-4	5	28	31	23	34	32	25	18	21	32	26	.....	.....	.....	21.7
Chambersburg.....	Maximum	42	53	49	39	36	44	38	32	33	36	49	43	40	33	31	33	20	30	49	61	49	68	73	60	44	43	51	48	.....	.....	.....	44.0
	Minimum	9	32	35	30	29	32	30	21	20	30	29	31	30	15	22	12	0	2	25	33	32	35	34	27	21	25	33	31	.....	.....	.....	25.2
Emporium.....	Maximum	48	48	38	32	40	38	35	28	37	43	51	37	33	30	33	27	-20	44	49	52	48	67	69	42	38	42	39	37	.....	.....	.....	41.1
	Minimum	16	36	28	22	17	32	24	14	15	24	35	25	15	4	22	3	-11	13	31	31	20	38	31	18	16	13	33	14	.....	.....	.....	20.7
Erie.....	Maximum	49	30	29	42	39	31	29	35	44	46	37	26	27	32	15	30	45	53	41	33	59	65	22	19	29	36	35	33	.....	.....	.....	37.2
	Minimum	34	27	23	23	22	31	18	17	28	30	26	19	18	15	15	6	1	29	35	29	23	31	22	15	19	22	31	18	.....	.....	.....	22.4
Grove City.....	Maximum	46	48	42	36	44	43	37	29	33	41	50	51	38	30	34	32	22	46	47	47	50	68	66	54	42	39	40	35	.....	.....	.....	42.5
	Minimum	20	35	30	21	24	32	25	11	23	26	30	26	18	9	25	7	-1	12	32	33	24	42	52	17	18	33	33	20	.....	.....	.....	22.4
Harrisburg.....	Maximum	40	51	43	38	35	45	38	33	34	37	42	36	38	29	24	34	18	32	41	57	47	63	69	49	41	47	46	41	.....	.....	.....	41.5
	Minimum	12	34	35	30	31	33	30	22	24	30	31	30	23	17	23	12	4	11	31	40	35	39	43	28	23	29	33	25	.....	.....	.....	27.1
Holtwood.....	Maximum	44	54	47	41	41	48	38	32	35	38	45	43	44	35	34	25	21	43	48	60	46	55	73	39	46	48	46	44	.....	.....	.....	43.3
	Minimum	6	10	84	32	29	29	32	23	20	22	33	32	25	16	16	18	0	3	17	35	35	35	37	31	21	23	33	34	.....	.....	.....	24.7
Indiana.....	Maximum	51	50	44	37	46	43	35	29	38	49	54	52	43	38	36	33	22	43	48	53	58	70	72	51	72	43	42	40	.....	.....	.....	46.1
	Minimum	26	36	29	23	28	33	26	10	21	31	40	29	24	12	29	10	-7	1	27	32	28	43	42	20	19	20	25	23	.....	.....	.....	24.4
Mifflintown.....	Maximum	40	50	41	36	36	44	38	30	33	38	40	36	32	30	30	34	21	30	45	58	49	63	74	40	39	46	43	39	.....	.....	.....	40.5
	Minimum	9	34	35	28	30	33	30	20	20	27	34	30	27	6	22	13	0	8	28	33	28	34	32	25	20	22	33	25	.....	.....	.....	24.5
Philadelphia.....	Maximum	43	51	47	39	39	49	40	35	38	37	51	40	43	34	34	34	18	35	48	62	53	60	71	56	45	46	46	46	.....	.....	.....	44.3
	Minimum	29	39	37	34	32	37	29	22	26	30	34	30	28	21	28	9	4	14	34	43	35	35	36	31	27	32	34	24	.....	.....	.....	29.1
Pittsburgh.....	Maximum	55	50	38	37	49	44	30	33	37	52	55	45	31	36	34	16	25	46	56	53	60	70	70	32	38	44	42	34	.....	.....	.....	43.3
	Minimum	30	35	30	26	33	30	23	19	27	37	34	30	21	19	16	8	5	25	39	37	33	51	32	20	23	24	34	18	.....	.....	.....	27.1
Reading.....	Maximum	43	52	43	37	36	45	36	32	37	37	41	39	37	32	32	32	16	34	47	57	48	63	72	55	42	48	43	42	.....	.....	.....	42.0
	Minimum	14	37	36	29	31	35	26	20	25	32	35	30	22	17	24	6	2	11	33	42	35	36	40	28	25	30	35	21	.....	.....	.....	27.1
Scranton.....	Maximum	46	49	39	34	37	45	34	29	37	43	43	38	34	30	30	30	10	30	47	53	42	57	67	41	38	46	40	39	.....	.....	.....	39.4
	Minimum	21	36	31	25	27	33	23	14	22	30	34	26	18	14	23	2	-7	6	27	35	28	38	41	17	18	25	32	15	.....	.....	.....	23.9
Somerset.....	Maximum	50	43	40	35	43	38	33	38	35	48	50	43	40	34	32	26	22	43	48	52	52	67	60	51	44	44	41	35	.....	.....	.....	42.4
	Minimum	21	36	20	25	28	30	12	18	25	30	36	30	20	10	24	4	0	18	35	35	29	37	41	21	18	22	33	20	.....	.....	.....	24.2
State College.....	Maximum	43	48	41	33	35	38	33	26	35	38	51	45	37	28	28	30	18	34	40	50	46	65	65	54	40	43	39	36	.....	.....	.....	42.0
	Minimum	13	34	29	21	24	31	26	15	19	26	32	24	18	6	18	6	-5	0	26	36	28	37	46	19	17	26	31	21	.....	.....	.....	20.3
Towanda.....	Maximum	40	51	42	30	37	41	32	28	36	41	44	39	36	31	30	28	11	30	48	50	35	61	66	54	38	41	39	38	.....	.....	.....	41.0
	Minimum	6	37	30	23	21	32	23	12	15	28	35	22	21	9	20	3	-7	7	28	32	25	32	36	16	16	19	31	18	.....	.....	.....	22.2
Uniontown.....	Maximum	57	51	43	35	48	48	36	29	36	51	59	55	54	39	35	31	24	41	56	56	62	65	73	55	39	44	45	41	.....	.....	.....	46.7
	Minimum	22	40	-31	27	31	35	27	19	26	36	39	33	27	17	27	9	2	20	40	38	33	50	49	25	23	24	40	27	.....	.....	.....	29.2
Warren.....	Maximum	42	42	32	30	38	38	30	25	32	40	40	32	32	30	14	25	40	50	50	50	68	68	37	40	40	38	32	.....	.....	.....	38.1	
	Minimum	25	32	26	12	22	30	21	12	20	25	30	21	20	8	14	2	-10	14	40	29	20	40	35	20	18	15	30	15	.....	.....	.....	20.9
Wellsboro.....	Maximum .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Williamsport.....	Maximum	40	50	47	36	35	44	38	32	38	39	39	37	36	28	30	30	20	29	40	54	50	56	66	56	39	45	44	39	.....	.....	.....	40.6
	Minimum	16	35	35	26	24	33	29	17	19	28	35	27	27	11	21	12	-5	12	27	31	25	35	32	23	19	23	32	27	.....	.....	.....	24.1

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

VOL. XXVII PHILADELPHIA, PA., MARCH, 1922. No. 3.

GENERAL SUMMARY.

The month was both warmer and wetter than the ordinary March, yet there were no very marked extremes in either temperature or precipitation. It was a stormy month, exhibiting fully the traditional characteristics of March, with frequent decided temperature changes and a large number of rainy days. East and northeast winds prevailed during several of the storms, which made the weather seem disagreeable, but aside from hindering outdoor work to a considerable degree the weather of the month was generally favorable.

Although the temperatures averaged higher than the March normal, vegetation was not unduly advanced; for there were cool periods of sufficient number and intensity to keep fruit tree buds from reaching a stage in which they would have been subject to injury by freezing. Cooperative observers and other correspondents have very generally reported that both wheat and rye wintered well and appeared to be in fine condition at the close of the month.

TEMPERATURE.

The average temperature for the State, as determined from records of 73 stations, was 40.0°, or 2.8° above the March normal. Monthly average temperatures ranged from 44.6° at Beaver Dam to 33.2° at Montrose. The extremes for the State were 81° at Gettysburg on the 26th and -5° at Saegerstown on the 23d. There were three well marked warm periods during which maximum temperatures of 55° or higher were common in nearly every part of the State. These covered the 5th and 6th, the 12th to 14th, and the 25th to 28th.

PRECIPITATION.

The average precipitation for the State, as determined from records of 124 stations, was 4.37 inches, or 0.82 inch above the March normal. The State average was the highest for any March since 1913, when it was 5.27 inches. The greatest monthly amount of precipitation was 6.65 inches at Girardville, and the least was 2.30 inches at Creekside. There was remarkable uniformity of distribution of precipitation, as shown by the facts that at only three stations was the total amount less than 3.00 inches and at only four stations was it more than 6.00 inches. Precipitation was recorded at three or more stations on every day of the month, and the longest interval of anything like generally fair weather over the State was between the 15th and 19th. The largest amounts of precipitation at most stations fell on the 7th and 20th. Heavy rains fell also on the 27th and 31st at some other stations. At Pittsburgh 1.48 inches was recorded on the 31st with serious flooding of streets in some parts of the city. Considerable minor damage chiefly to wire systems was done by the wind that attended this storm at Pittsburgh and by ice that formed on wires near Freeland.

There was less than the usual amount of snow during the month. The most recorded at any station was 20.5 inches at Somerset, and the least was 1.3 inches at Philadelphia. In the southeastern part of the State there was no snow of consequence except on the 1st, but in the colder sections snows occurred extensively on the 1st, 4th, 8th, 21st, and some other dates.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Total move- ment, in miles.	Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.			Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	•Highest.	Direction.	Date.
Erie.....	218.9	370.6	59	74	70	10,283	13.8	55	se.	30
Harrisburg.....	196.2	371.0	53	69	64	5,995	8.1	32	sw.	21
Philadelphia.....	187.1	371.0	50	73	63	8,358	11.2	37	s.	7
Pittsburgh.....	168.9	370.8	46	77	68	8,987	12.1	44	w.	7
Reading.....	175.0	371.0	47	80	74	4,512	6.1	30	nw.	8
Scranton.....	.....	.....	.....	80	65	5,718	7.7	33	sw.	7

* For any five-minute period.

COMPARATIVE DATA FOR MARCH.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	31.2	72	-6	3.55	6.39	1.70	.....	.....	.....
1889.....	39.0	76	4	2.90	5.44	1.44	10	8	13
1890.....	33.2	76	-18	5.15	8.31	2.90	6	10	15
1891.....	33.8	60	-14	5.10	8.39	2.44	7	8	16
1892.....	31.8	66	-4	4.14	6.61	2.04	11	7	13
1893.....	34.8	74	3	2.52	5.09	0.71	9	9	13
1894.....	43.2	84	-2	1.63	2.90	0.24	12	11	8
1895.....	33.8	70	-4	2.31	4.03	0.99	10	10	11
1896.....	30.6	69	-18	4.51	7.98	1.77	11	8	12
1897.....	39.0	75	-5	3.22	5.86	1.01	11	7	13
1898.....	44.0	83	4	4.31	8.40	2.06	10	8	13
1899.....	36.3	75	3	4.87	10.30	1.91	5	9	17
1900.....	31.2	66	-23	3.61	7.31	2.25	10	9	12
1901.....	37.4	80	-11	4.14	7.21	1.52	7	10	14
1902.....	41.3	78	2	3.98	7.50	0.77	10	9	12
1903.....	46.4	83	14	4.52	5.81	2.82	10	7	14
1904.....	36.0	80	-2	4.29	7.02	2.10	9	8	14
1905.....	39.0	86	-18	3.86	6.57	1.40	12	8	11
1906.....	31.7	68	-13	4.46	7.37	2.76	8	7	16
1907.....	41.8	92	-10	4.26	8.20	1.08	11	8	12
1908.....	40.7	83	-4	4.76	10.00	1.58	11	8	12
1909.....	35.6	74	-5	3.07	4.90	1.33	10	9	12
1910.....	44.9	88	5	0.56	1.33	0.00	15	10	6
1911.....	35.0	73	-18	2.57	4.75	1.15	11	8	12
1912.....	33.6	72	-8	5.05	9.71	1.80	10	8	13
1913.....	42.1	81	-7	5.27	9.08	2.75	9	8	14
1914.....	34.2	79	-12	2.61	5.08	0.88	10	3	13
1915.....	32.9	62	-4	1.28	2.80	0.57	15	8	8
1916.....	30.7	84	-31	4.12	8.84	2.20	12	8	11
1917.....	37.3	84	-12	3.68	6.06	1.43	11	8	12
1918.....	41.6	82	0	2.34	4.98	0.87	17	7	7
1919.....	41.1	79	6	3.57	6.99	1.29	15	7	9
1920.....	38.7	80	-11	2.83	9.70	1.06	16	7	8
1921.....	48.0	88	7	3.33	6.15	1.05	12	9	10
1922.....	40.0	81	-5	4.37	6.65	2.30	11	6	14

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	5.8	12.0	8	3.3	6	18
Phillipsburg.....	Delaware.....	6.7	15.0	9	3.4	4	22
Mauch Chunk.....	Lehigh.....	5.2	8.7	8	4.4	3	15
Wilkes-Barre.....	Susquehanna.....	10.5	18.6	9	6.1	6	20
Williamsport.....	Susquehanna.....	5.9	11.2	8	3.3	25	20
Harrisburg.....	Susquehanna.....	7.2	12.4	9	5.4	27	17
Freeport.....	Allegheny.....	9.9	15.1	8	5.7	4	22
West Newton.....	Youghiogheny.....	4.0	9.8	16	1.9	24	20
Greensboro.....	Monongahela.....	.....	.....	.....	.....	.....	20
Pittsburgh.....	Ohio.....	9.7	18.4	16	3.3	23	22
Beaver Dam.....	Ohio.....	15.0	25.2	16	7.3	23	30

Climatological Data for March, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.			Prevailing direction of wind.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.			Pt. cloudy.	Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	35	38.8	+1.5	72	28	13	17	34	2.96	+0.19	0.61	8.0	16	11	7	13	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	205	38								4.31	+0.63	1.28		10	4	19	8	sw.	Prof. Chas H. Rominger
Bustleton.....	Philadelphia.....	125	3	42.1		75	26	18	17	40	3.51		0.98	2.0	14	12	4	15	sw.	Experiment Station.
Carlisle.....	Cumberland.....	467	55	42.5	+5.0	76	26	19	17	40	4.00	+0.44	0.75	4.0	12	15	1	15	sw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	25	39.8	+2.2	77	26	9	3	42	3.79	+0.78	0.90	4.5	15	13	2	16	nw.	H. H. Yetter.
Center Hall.....	Center.....	1,272	26	37.4	+1.6	73	28	12	1	36	3.80	+0.47	0.86	6.5	10	15	3	13		S. W. Smith.
Chambersburg.....	Franklin.....	631	22	42.0	+3.6	77	26	19	17	41	3.76	+0.76	0.66	1.5	16	11	4	16	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	12	40.2	+4.1	75	25	11	18	45	3.71	+0.05	0.67	13.0	14	12	6	13	w.	E. W. Hess.
Coatesville.....	Chester.....	380	34	41.5	+2.1	78	26	18	17	42	5.16	+0.87	1.35	4.0	16	9	10	12	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	12	40.4		75	26	17	1	40	4.26	+0.46	0.88	2.4	18	15	1	15	nw.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	34	36.9	+1.9	73	25	6	1	41	3.98	+0.24	0.74	6.0	16	7	11	13	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	21	43.1	+4.1	77	26	18	1	41	5.91	+2.51	1.55	3.0	12	13	2	16	n.	E. K. Hershey.
Everett.....	Bedford.....	1,080	24																	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,873	7	35.4		69	28	8	17	30	5.67		1.54	15.0	15	7	7	17	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	15	41.4	+2.2	75	26	16	1	40	3.95	+0.62	1.07	3.0	16	12	8	11	nw.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	48	43.1	+3.9	81	26	18	18	45	5.05	+1.89	1.05	2.0	13	13	3	15	s.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	18	39.0	+3.1	75	26	14	17	40	5.06	+0.80	2.00	5.7	15	15	0	16	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	29																	State Sanatorium.
Hanover.....	York.....	600	18	42.6	+1.0	76	26	19	1	36	3.48	+0.27	0.65		11	16	2	13	w.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	52	41.8	+4.0	75	26	19	1	36	3.21	+0.09	0.67	2.5	17	8	6	17	nw.	U. S. Weather Bureau.
Huntingdon.....	Huntingdon.....	650	34	40.2	+1.9	76	28	15	18	45	3.07	-0.52	0.56	4.4	14	14	2	15	e.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	2																	C. B. McCullough.
Kennett Square.....	Chester.....	340	50																	W. P. Mercer.
Lancaster.....	Lancaster.....	255	34	42.3	+4.3	79	26	17	18	46	4.09	+0.64	1.01	2.0	13	14	8	9	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	24	37.8	+3.8	70	25	5	2	41	3.40	+0.91	0.80	9.0	8	10	7	14		C. P. Darling.
Lebanon.....	Lebanon.....	469	81	41.6	+3.0	77	26	17	1	40	4.37	+0.54	1.17	2.7	17	14	4	13	e.	S. B. Benzing.
Lewisburg.....	Union.....	450	47	40.8	+5.3	78	26	11	3	38	4.04	+0.54	0.96	5.0	11	15	2	14	s.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	34																	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	7	39.6		77	26	15	17	45	3.99		1.56	3.0	14	13	1	17	nw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	2	43.2		74	26	20	1	39	4.89		1.28	3.0	12	13	8	10	nw.	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	32	39.6	+2.8	77	26	15	1	44	5.29	+0.90	1.88	6.0	11	11	10	10	w.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	18	40.2	+2.2	77	26	17	18	37	3.36	+0.20	0.58	4.0	14	13	3	15	nw.	Wellington Smith.
Montrose.....	Susquehanna.....	1,658	19	33.2	+2.1	68	26	1	1	39	3.22	+0.53	0.80	8.0	8	17	1	13	w.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	20								5.51	+1.84	2.60	6.0	12	6	15	10	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	10	37.7		73	28	5	3	38	4.24		1.25	3.0	13	11	7	13	sw.	A. H. Boatman.
Narberth.....	Montgomery.....	300	3	42.2		76	26	17	1	40	4.96		1.45	1.5	17	12	3	16	nw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	33	41.6		76	26	12	18	41				1.5	15	15	4	12	n.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	5	39.1		74	26	18	1	36	4.47		1.43	3.9	14	14	6	11	ne.	F. G. Freyer.
Philadelphia (a).....	Philadelphia.....	117	51	43.6	+3.6	75	26	20	1	35	4.34	+0.89	0.95	1.3	16	8	6	17	nw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	6	42.8		74	26	21	17	36	3.89		1.10	2.5	12					Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	11	42.8		74	26	18	17	39	5.61		1.42		15	12	14	5	nw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	37	39.8	+3.5	76	27	15	1	46	4.24	+0.54	1.44	2.8	14	13	5	13	ne.	John E. Benner.
Reading.....	Berks.....	325	52	41.8	+1.8	76	26	18	1	37	4.11	+0.57	1.02	2.8	16	12	3	16	nw.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	11																	S. A. Clarke.
Scranton.....	Lackawanna.....	805	27	38.7	+3.8	73	26	14	1	35	4.02	+0.90	0.86	5.7	13	6	10	15	nw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	32	40.8	+2.6	77	26	12	1	46	3.91	+0.18	0.80	4.0	10	15	6	10	w.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	26	43.8		74	26	20	1	36	3.95	+0.29	1.15		14	10	10	11	nw.	W. S. Guiles.
State College.....	Center.....	1,217	37	37.8	+2.5	72	28	13	17	35	3.80	+0.50	0.65	5.0	15	10	10	11	w.	C. A. Kern.
Stroudsburg.....	Monroe.....	500	10	40.5		76	26	15	4	47	6.19		1.17	4.0	11					H. Q. Snyder.
Towanda.....	Bradford.....	754	27	37.0	+2.6	71	28	6	3	41	3.72	+1.01	0.81	11.2	10	7	7	17	aw.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	56	35.2	+2.5	70	25	2	3	40					14	5	12			George W. Hill.
West Chester.....	Chester.....	455	84	41.7	+3.4	76	26	17	1	42	4.31	+0.37	1.40	5.4	16	14	8	9	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	35	41.1	+4.5	77	26	16	1	35	3.49	+0.18	0.98	3.5	12	13	1	17	w.	Jacob April.
York.....	York.....	400	34	43.2	+3.8	79	26	20	17	45	3.55	+0.21	0.80	4.0	14	15	2	14	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	29	44.6		79	26	16	3	42	3.58	+0.05	0.55	8.0	14	10	1	20	ne.	U. S. Engineer.
Bradford.....	McKean.....	1,427	7	37.5		74	25	5	23	45	4.37		0.96	12.0	13	9	5	17	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	990	4	36.4		74	25	5	23	48	4.54		1.00	12.1	16	11	5	15	s.	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	31	35.8	+1.9	75	25	1	23	49	5.28	+2.18	0.98	7.5	10	17	5	9		John Fawcett.
Claysville.....	Washington.....	1,150	18	43.4	+2.8	76	25	15	23	40	5.05	+1.55	0.70	10.1	17	13	3	15	n.	J. L. Melvin.
Corry.....	Erie.....	1,400	10	36.6		73	25	4	23	43	5.49		0.96	19.6	19	12	3	16		Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	25	40.0	-0.1	77	25	9	23	48	4.63	+0.42	0.80	4.8	15	13	4	14	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	4	36.2		73	28	9	9	44	4.13		0.61		17	11	8	12	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	5	38.9		75	25	9	23	46	4.54		1.07		16	10	6	15	w.	J. D. Miller.
Franklin.....	Venango.....	1,000	49	37.2	+1.5	74	25	8	23	42	4.86	+1.38	0.77	11.0	17	8	3	20	nw.	F. E. Dixon.
Greensburg.....	Westmoreland.....	1,150	14	41.9	+3.1	76	25	15	23	40	5.37	+2.04	1.00	8.2	18	9	10	12	ne.	Westmoreland Water Co.
Greenville.....	Mercer.....	950	27																	

Day of month.

Continued on page 12.

Ohio Drainage.

Daily Precipitation for March, 1922.—Continued from page 11.

Stations.	Drainage Basin.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Davis Isl. Dam	Ohio		.36			.81		.17	.25			.40			.06	.42				T	.10	.01	T	T	T	.09		.33	.57	.13	.36	.16	4.22				
Derry	Conemaugh	.15	.34		.80	.12	.45				.28			.41	.22							.15	.05		.22			.64	.08	T	.59	.13	4.63				
Ebensburg	Conemaugh		.60		.57	.13		.20	.18		.16			.18	.12							.05	.10	.05	.07			.57	.22	.14	.61	.18	4.13				
Edinboro	Allegheny	.03			.46	.12		.64	.04		.96			.05							T	.04	.56	.53	.30			.48	.20	.05	.98	.22	5.66				
Elk Lick	Youghiogheny	.25	.70		.50	.08		.16			.14	.19			.20	1.07						.20	.10	T	T			.33	.08	.18	.20	.16	4.54				
Falls Creek	Allegheny	T	.22		.25	.83		*	.42		.54			.20								.15	.20		.14			*	1.05	.08	*	.30	4.33				
Franklin	Allegheny		.10			.90		.24	.32		.77	.04		.06	.11							.02	.20	.06	T	.24		.28	.62	.10	.10	.70	4.86				
Freeport	Allegheny		.40			1.06		.10	.45		.48			.03	.42							T	.04	.02		.16		.29	.86	.10	.26	.18	4.85				
Greensburg	Youghiogheny	.15	.48		.88	.12	.56	.02			.12			.42	.50						T	.09	.08	.06	.05			.74	.22	.17	.55	.16	5.37				
Greenville	Beaver		.08		.43		.40	.01			.70			.20								.14		.01				.33	.08		1.14	.25	4.27				
Grove City	Beaver	.02	.13		.35	.35	.46	.10			.50			.40								.22			.15			.82	.25	.23	.52	.80	5.30				
Herr's Isl. Dam	Ohio	T	.48			1.05		.12	.32	T		.48			.06	.41					T	.04	.03	T	T	.13		.31	.60	.13	.33	.13	4.62				
Indiana	Conemaugh	T	.50		.98	.49	.45	.08						.85								.18	T	.20	.14			.73	.18	.09	.49	.10	4.36				
Irwin	Youghiogheny	.07	.50	.98		.57	.02				.34			.46	.21							.06	.05	.05	.10			.70	.15	.11	.67	.16	5.35				
Johnstown	Conemaugh	.40	.46		.57	.27	.31	.15			T	.20			.30	.27						.01	.11	.17	.09	.08		.68	.04	.25	.80	.15	5.31				
Ketner	Allegheny	.06	.10		.42	.06	.55	.08			.73			.04									.11	.05	.07			.81	.35	.18	.47	.08	4.16				
Linesville	Beaver		.11			.19		.43	.17			1.04	.07		.03							.22	.22	.25	T	.11	.15	.36	.22	.30	.09	.80	4.56				
Lock No. 4	Monongahela		.66	.02	.03	1.02		.08	.42	.02		.35			.11	.85						.05	.04	.01	T	.07	.09	.28	.48	.28	.48	.35	5.69				
Lycippus	Conemaugh	.07	.30		1.20	.15	.50				.22			.42	.64							.08	.13	.11	.03			.60	.04		.65	.11	5.22				
New Castle	Beaver		.10		*	.46		.41	.11		.63			.19	.23							.03	.07	.04	.03	.17		.47	.53	.31	.21	.24	4.23				
Newell	Monongahela	.02	.74	T	.79	.15	.39	.09			.31			.16	.90							.03	.04	.02				.26	.22		.51	.15	4.78				
North Shenango	Beaver		.10			.32		.47	.14		.08			T								.05	.21		.23			.35	.18	.45	.08	.85	4.35				
Parkers Landing	Allegheny	T	.05	T		1.00	.35	.55			.47			T	.30							T	.10	.03	T	T	.13		.33	.95	.20	.05	.20	4.76			
Pennline	Beaver	T	.06			.15	.43	.10	T		.50			.08	.06							T	.11	.07	T	.08	.18		.30	.39	.23	.05	.81	4.03			
Pittsburgh	Ohio	.35	.09		.90	.02	T	.33	T		T	.50			.47						T	.03	.07	.01	T	.15	.04	.77	.10	.11	.42	1.48	5.84				
Ridgway	Allegheny																																				
Saltsburg	Conemaugh		.66	.03		1.04		.05	.52	T		.24				.45						.06	.06	.10	.01		.15	.21	.65	.12	.20	.48	5.03				
Saegertown	Allegheny				.40		.67																.30	.20	.23		.02	.75	.06			1.26	.23	4.11			
Sharon	Beaver	T	.20		.25		.34	.13			.55			T	.23							T	.10	.02	.12	.27		.32	.43	.04	.10	.58	3.62				
Somerset	Youghiogheny	.20	T	.65	.70		.26	T			.06			.29	.30							T	.10	.20	.12	.11	.04	.56	.61	.12	.33	.26	5.77				
Springdale	Allegheny		.48	.02		1.25	.12	.37			.58			.07	.44							.03	.02	T	T	.13		.32	.85	.16	.37	.13	5.94				
Summit	Beaver		.35			.15	.45				1.02											.20	* .12	.15				.38	.14		.25	.98	4.19				
Tionesta	Allegheny	.01			.81		.77	.19			.78			.10								*	* .12	.25			*	.92	.10		.88	4.93					
Turnerville	Beaver	.03			.10	.80					.80				.10								.10	.18					.40	.20	.70	3.41					
Uniontown	Monongahela	.20	.62		.65	.23	.60	.05		.02	.16			.58	.72						.05	.08	.11	.06	T			.37	.03	.11	.16	.10	4.90				
Vandergrift	Conemaugh	.09	.36		.90	.15	.50	.06			.25			.43									.07		.17			.70	.32	.10	.42	.09	4.61				
Warren	Allegheny		.10		.40	.20	.48	.16			.30			.02								.02	.12	.06	.02			.30	.18	.10	.85	.18	3.49				
Washington	Ohio	.39	.07		.82	.03	.30				.44			.62	.41						.09	.01	.03	.01		.06		.75	.21		.72	.96	6.03				
Waynesburg	Monongahela																					.05	.10	T	T	.24		.30	.23	.34	.17	.72	4.20				
Westford	Beaver		.16			.23		.69	T		.93			.04								.05	.10	T	T	.24		.30	.23	.34	.17	.72	4.20				
West Newton	Youghiogheny		.68			.87		T	.46		.23			.32	.86							.04	T	T		.18		.05	.54	.20	.43	.32	5.18				
Lake Drainage.																																					
Erie***	Lake Erie	.10	T			.57		.04	.47	T		.65			.01			T	T		.01	.05	.33	T	T	T	.09	.51	.24	T	.98	.29	4.34				
West Bingham	Genesee				.20		.48	.10			.58			T				T				.20	T				T	.40	.23	.10	.15	.60	3.04				

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement. T. (trace) when precipitation is less than .01 inch. § Incomplete or missing.

Daily Temperatures for March, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Altoona.....	Maximum...	22	34	43	37	44	59	57	36	45	40	46	52	62	60	51	47	39	42	46	47	33	29	49	49	70	71	68	72	69	44	37	48.2
	Minimum...	13	19	20	22	29	25	32	23	15	34	36	27	29	41	40	30	22	13	32	35	26	23	15	33	38	41	45	51	41	30	33	29.5
Brookville.....	Maximum...	27	32	44	34	48	60	47	55	50	46	50	56	63	51	52	38	37	40	49	42	30	31	48	45	75	67	55	69	64	41	43	47.7
	Minimum...	10	27	11	17	20	16	30	15	11	32	25	21	23	34	26	21	15	9	34	29	24	11	—	1	30	32	31	42	48	30	37	23.9
Catawissa.....	Maximum...	30	36	45	38	53	65	61	42	50	45	56	62	53	53	44	38	45	50	50	37	39	51	62	72	77	63	76	56	36	40	50.6	
	Minimum...	15	22	9	18	25	23	31	30	21	28	38	26	25	37	28	27	25	20	24	34	34	30	28	25	37	36	45	51	36	30	31	29.1
Chambersburg.....	Maximum...	31	40	47	39	54	67	58	41	47	45	45	55	60	56	52	51	45	44	49	51	42	39	53	56	72	77	68	73	69	52	41	52.2
	Minimum...	19	22	27	32	37	32	48	35	31	20	36	38	27	26	35	39	27	25	19	34	34	32	29	21	29	39	36	50	54	52	34	37	31.9
Emporium.....	Maximum...	29	35	42	35	48	58	55	35	46	48	44	51	63	55	51	36	34	42	56	45	35	34	48	52	73	67	56	68	56	34	37	47.4
	Minimum...	6	21	10	14	30	17	35	25	12	31	35	21	22	35	33	23	20	30	31	26	24	14	22	35	33	32	43	33	24	34	26	31.9
Erie.....	Maximum...	28	30	36	41	46	60	59	31	43	50	43	43	63	59	44	35	29	30	33	49	30	30	18	47	75	61	42	58	47	50	44	45.8
	Minimum...	17	24	20	26	26	39	27	23	25	37	32	31	39	40	34	29	21	18	29	30	26	25	16	36	37	36	34	37	29	32	29	32.2
Grove City.....	Maximum...	30	30	40	40	45	57	58	39	48	52	49	56	64	61	51	49	37	38	49	48	33	34	48	47	74	51	51	63	62	43	53	48.5
	Minimum...	14	22	13	23	27	24	33	23	23	35	38	25	32	47	24	16	9	11	34	31	25	23	11	35	39	43	41	51	32	33	36	28.2
Harrisburg.....	Maximum...	27	38	42	35	52	64	59	40	46	42	42	53	58	51	52	46	40	43	46	50	38	38	49	54	67	75	63	72	62	39	39	49.1
	Minimum...	19	23	28	30	34	31	38	35	32	28	38	36	37	34	41	43	34	28	20	32	33	33	30	25	39	43	39	51	59	39	34	35	34.4
Holtwood.....	Maximum...	30	44	43	43	54	65	62	42	48	45	51	58	59	51	50	51	43	37	43	50	43	41	49	48	65	79	66	76	64	45	48	51.4
	Minimum...	20	22	26	29	31	28	30	36	26	30	39	31	29	31	40	33	31	20	28	33	33	29	26	28	38	37	42	54	56	36	38	32.5
Indiana.....	Maximum...	27	34	43	44	40	69	65	39	51	49	53	59	66	64	55	54	43	41	52	46	53	35	50	48	77	74	63	72	70	45	53	52.7
	Minimum...	15	23	34	36	27	28	33	24	21	38	39	26	32	43	37	28	22	15	34	32	26	23	12	32	40	52	48	55	35	34	40	31.7
Mifflintown.....	Maximum...	28	37	45	34	47	60	50	40	48	44	42	52	60	49	52	46	45	46	49	39	37	58	50	70	77	57	75	57	39	38	48.8	
	Minimum...	18	22	19	27	32	24	40	29	20	35	28	29	25	36	41	35	26	17	30	35	35	30	25	37	40	40	47	53	37	34	34	31.6
Philadelphia.....	Maximum...	31	40	46	38	55	66	61	43	49	45	41	55	57	58	54	49	40	43	45	53	44	41	50	62	68	75	69	72	65	39	42	51.5
	Minimum...	20	25	29	34	35	38	40	34	32	38	36	38	36	44	40	35	26	22	30	35	36	33	30	38	42	40	56	58	39	35	36	35.8
Pittsburgh.....	Maximum...	33	34	42	38	45	68	58	39	49	52	48	58	66	58	50	42	39	41	54	53	31	33	51	54	75	67	61	71	57	62	61	51.8
	Minimum...	18	29	22	32	30	34	34	28	29	44	41	34	42	46	37	30	25	21	38	30	26	25	24	45	43	47	48	57	35	41	42	34.7
Reading.....	Maximum...	29	37	44	37	52	66	64	42	49	42	41	52	58	53	51	46	37	42	46	50	41	39	49	59	66	76	65	73	64	35	38	49.8
	Minimum...	18	23	26	30	34	32	38	32	29	38	33	34	31	45	40	33	23	21	34	32	29	28	42	42	39	55	59	35	32	35	33.9	
Scranton.....	Maximum...	28	35	38	37	49	62	60	37	49	46	39	45	58	54	49	38	28	36	47	47	36	32	45	58	68	73	63	73	58	34	35	46.9
	Minimum...	14	21	20	32	27	34	28	25	36	34	30	29	44	38	28	18	17	20	34	30	25	25	37	43	44	44	57	30	29	34	30.5	
Somerset.....	Maximum...	22	33	41	43	50	64	52	32	48	38	46	68	67	47	40	40	38	40	46	48	46	30	36	49	58	75	70	72	71	41	55	48.6
	Minimum...	14	18	17	30	28	21	30	20	15	35	35	25	43	32	28	31	28	14	22	35	30	22	22	11	35	42	40	40	37	32	35	28.0
State College.....	Maximum...	24	35	40	35	45	60	55	36	45	43	39	47	60	54	51	43	37	43	43	36	31	48	47	66	62	58	72	64	40	36	46.4	
	Minimum...	13	19	17	22	29	25	36	24	19	33	34	27	26	47	36	28	22	13	28	32	25	23	16	36	35	50	42	53	38	28	31	29.3
Towanda.....	Maximum...	27	33	39	32	46	59	54	37	47	49	43	44	56	60	50	37	30	33	45	47	40	32	45	57	69	64	58	71	60	33	34	46.2
	Minimum...	14	21	6	13	30	18	37	27	19	31	33	25	23	38	32	30	23	17	17	35	31	25	25	34	31	43	40	54	31	27	31	27.8
Uniontown.....	Maximum...	31	39	37	38	39	71	63	38	52	53	52	62	67	57	48	44	45	39	50	54	35	32	50	63	77	73	64	74	69	61	67	59.0
	Minimum...	19	31	27	31	28	28	35	28	26	40	42	34	38	47	39	27	27	20	38	33	28	26	16	38	39	54	50	58	41	38	49	34.7
Warren.....	Maximum...	25	32	42	33	36	54	54	38	47	43	56	42	44	43	45	35	27	34	42	42	32	27	37	42	58	58	54	60	52	35	40	42.2
	Minimum...	12	18	20	20	21	22	30	11	30	32	34	25	24	40	32	23	23	15	30	32	25	24	10	30	35	41	40	52	31	30	35	27.3
Wellsboro.....	Maximum...	26	30	36	36	50	57	49	35	43	48	42	44	57	55	50	32	28	37	45	46	35	32	52	55	70	68	55	69	56	35	35	45.4
	Minimum...	10	15	2	23	30	17	29	22	15	30	32	21	21	31	27	27	19	15	20	29	27	22	20	31	35	36	39	40	31	25	28	25.1
Williamsport.....	Maximum...	28	35	43	41	53	59	50	42	44	44	44	51	60	57	53	51	38	44	42	46	43	42	52	62	66	77	71	75	72	48	37	50.9
	Minimum...	16	23	20	20	32	26	40	28	22	36	33	30	27	37	39	30	26	20	25	35	32	27	25	35	41	42	44	51	44	31	32	31.8

UNP

MAY 30 1922

CLIMATOLOGICAL DATA

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

VOL. XXVII. PHILADELPHIA, PA., APRIL, 1922. No. 4.

GENERAL SUMMARY.

The spring was not wholly favorable, but much better than in 1921. The moderate excess in temperature that prevailed during March extended into April with a particularly warm period from the 8th to the 18th that started vegetation and fruit buds a little too early. This was followed by a cold period with frosts and freezing temperatures that did considerable damage. This cold period was later in the month than the one that proved so injurious in 1921, but vegetation was not so far advanced as it was last year when the frosts came, and, for this reason the injury was less serious than in the spring of last year. Peaches and cherries suffered most, but apples seemed to have been only slightly injured, except in southwestern counties where all fruits were badly frozen. Truck crops and vegetables were set back considerably by the cold weather but were recovering from its effects early in May.

Corn ground was being prepared in some parts of the State toward the close of the month and some oats had been sown. Wheat and rye were in thriving condition in most places throughout the month, but during the cold spell these grains began to turn yellow on low ground. Alfalfa and clover were hurt by the frost in some places, but the damage was not extensive.

TEMPERATURE.

The average temperature for the State, as determined from records of 77 stations, was 50.1°, or 1.4° above the April normal. Monthly average temperatures ranged from 54.2° at Beaver Dam and Newell to 41.0° at Mount Pocono. The extremes for the State were 91° at Gettysburg on the 10th, and 11° at West Bingham on the 22d. Maximum temperatures of 75° to 85° were observed at most stations on the 7th, 8th, 9th and 10th in the western part of the State, and on the 8th to 11th inclusive in the eastern part. The lowest temperatures occurred mostly on the 22d, and were much below freezing except at the stations in Philadelphia, Pittsburgh, Harrisburg and Erie. However, the minimum temperatures were only 2° or 3° lower than are recorded most years in April.

PRECIPITATION.

The average precipitation for the State, as determined from records of 127 stations was 3.17 inches, or 0.50 inch below the April normal. Totals for the month ranged from 6.10 inches at Herrs Island Dam to 1.28 at Lancaster. The greatest 24-hour rainfall for the month was 2.44 inches at Catawissa in the storm of the 14-15th. The precipitation was generally above normal in the western part of the State and below normal in the eastern part. Very little rain occurred after the 20th. No damage of any consequence resulted during the month from high winds or hail. Lightning on the 10th set fire to some oil tanks near the Ohio River below Pittsburgh causing losses amounting to several thousands of dollars.

G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.				
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	262.2	401.1	65	74	68	11,598	16.1	65	w.	19
Harrisburg.....	240.3	398.6	60	62	52	5,640	7.8	44	sw.	11
Philadelphia.....	236.5	398.6	59	62	50	7,464	10.4	36	sw.	11
Pittsburgh.....	227.4	399.9	57	71	58	9,006	12.5	47	nw.	20
Reading.....	229.0	399.0	57	66	61	3,357	4.7	36	nw.	20
Scranton.....	.....	.....	.....	77	58	6,038	8.4	48	sw.	11

* For any five-minute period.

COMPARATIVE DATA FOR APRIL.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	47.2	92	12	2.52	4.23	0.99	14	10	6
1889.....	49.7	88	14	4.50	8.15	2.09	11	8	11
1890.....	48.6	85	12	3.46	5.50	1.75	.....	.....	.....
1891.....	49.8	87	11	2.08	3.54	1.12	13	9	8
1892.....	46.9	85	14	2.04	4.43	0.61	10	10	10
1893.....	47.7	85	16	4.74	6.91	2.95	7	10	13
1894.....	48.0	83	5	3.62	10.00	1.69	11	8	11
1895.....	49.2	90	5	3.76	7.09	0.79	10	8	12
1896.....	53.0	97	4	1.75	3.39	0.20	10	10	10
1897.....	49.0	92	12	3.30	4.63	1.20	12	9	9
1898.....	45.6	84	4	2.93	5.34	1.36	9	8	13
1899.....	50.2	92	2	1.76	3.25	0.70	15	9	6
1900.....	49.2	90	13	1.57	2.80	0.60	14	8	8
1901.....	47.2	95	10	5.41	9.18	1.46	9	5	16
1902.....	48.0	91	20	3.56	7.14	1.34	8	10	12
1903.....	48.8	90	12	3.53	4.93	2.16	11	7	12
1904.....	44.7	86	9	3.45	6.42	1.34	8	8	14
1905.....	48.4	84	16	2.84	4.74	1.39	9	11	10
1906.....	50.0	89	12	3.13	6.96	0.75	14	8	8
1907.....	43.6	84	8	2.64	4.42	1.02	10	7	13
1908.....	49.8	89	0	3.51	6.31	1.85	12	8	10
1909.....	52.5	87	8	5.39	8.42	2.67	10	9	11
1910.....	52.6	89	18	5.07	8.50	2.21	10	9	11
1911.....	46.2	84	6	3.79	5.85	1.66	11	7	12
1912.....	50.2	83	18	4.39	7.31	2.41	10	7	13
1913.....	50.6	90	17	3.82	9.28	1.46	12	6	12
1914.....	47.3	93	5	4.66	7.50	1.90	10	8	12
1915.....	53.9	98	15	1.92	4.41	0.46	13	10	7
1916.....	48.0	87	16	3.65	7.40	1.65	9	9	12
1917.....	48.5	87	14	2.08	4.89	0.41	11	10	9
1918.....	48.2	81	12	4.53	2.41	0.30	10	9	11
1919.....	48.5	90	6	2.70	4.76	0.90	10	10	10
1920.....	46.0	87	8	4.39	11.34	2.44	9	9	12
1921.....	55.3	96	10	3.11	5.06	1.12	13	7	10
1922.....	50.1	91	11	3.17	6.10	1.28	12	9	9

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	5.5	7.1	12	3.3	30	18
Phillipsburg.....	Delaware.....	6.0	9.0	16	3.0	30	22
Mauch Chunk.....	Lehigh.....	4.8	6.1	15	4.0	30	15
Wilkes-Barre.....	Susquehanna.....	10.7	14.6	5	5.7	30	20
Williamsport.....	Susquehanna.....	6.0	11.3	16	2.9	30	20
Harrisburg.....	Susquehanna.....	7.2	9.7	17	4.9	30	17
Freeport.....	Allegheny.....	9.6	16.0	1	5.0	29	22
West Newton.....	Youghiogheny.....	3.0	11.1	16	1.0	30	20
Greensboro.....	Monongahela.....	.....	.....	.....	.....	.....	20
Pittsburgh.....	Ohio.....	9.2	20.3	15	4.4	10	22
Beaver Dam.....	Ohio.....	14.6	29.1	16	8.8	30	30

Climatological Data for April, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation of in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	35	49.2	+1.0	83	10	21	22	38	3.34	+0.56	1.23	T	13	15	11	4	w.	Lewis E. Biller.
Arcndtsville.....	Adams.....	700	3	50.8 ^a	.....	83 ^b	10	26 ^c	22	43 ^c	1.31	.....	0.45	T	7	14	5	11	n.	R. C. Walton.
Bethlehem.....	Northampton.....	205	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T	12	14	4	12	ne.	Prof. Chas. H. Rominger
Bustleton.....	Philadelphia.....	125	3	52.9	.....	84	10	28	22 ^d	37	2.53	.....	0.94	T	8	13	6	11	s.	Experiment Station.
Carlisle.....	Cumberland.....	467	55	53.4	+1.2	88	10	24	22 ^d	41	2.00	-1.33	1.03	T	12	14	4	12	ne.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	25	50.0	-1.3	83	9	22	22	41	3.99	+0.56	2.44	T	12	15	5	10	n.	H. H. Yetter.
Center Hall.....	Center.....	1,272	26	47.8	-1.1	81	10	19	22	48	2.35	-0.80	0.75	T	9	.....	.....	.....	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	22	52.0	+2.2	87	10	23	24	46	1.96	-0.88	0.73	T	9	11	10	9	s.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	12	50.0	+2.0	85	10	19	22	50	3.45	+0.06	1.34	.....	12	14	12	4	w.	E. W. Hess.
Coatesville.....	Chester.....	380	34	51.6	+0.8	86	9 ^d	22	22	41	2.20	-1.42	0.97	T	10	8	16	6	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	12	50.8	.....	85	10	25	22	37	2.14	-2.06	0.71	T	12	.....	.....	.....	n.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	34	47.5	+0.4	82	10	16	22	40	3.74	+0.39	1.10	T	13	9	12	9	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	21	52.6	+2.6	86	9 ^d	25	22	36	1.48	-2.07	0.66	0	7	12	7	11	s.	E. K. Hershey.
Everett.....	Bedford.....	1,080	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,873	7	44.9	.....	79	10	19	21	32	3.64	.....	1.20	1.5	13	9	10	11	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	15	51.2	+1.1	84	9 ^d	25	22	37	2.09	-1.55	0.95	0	11	13	12	5	w.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	48	53.0	+2.6	91	10	25	22	39	1.79	-1.78	0.61	0.2	9	11	12	7	s.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	18	48.8	+0.9	84	10	19	22	45	2.56	-2.27	0.83	T	11	16	2	12	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	29	49.8	-0.6	83	10	24	22	38	2.74	-1.59	0.98	T	8	10	11	9	w.	State Sanatorium.
Hanover.....	York.....	600	18	53.2	+0.2	85	9 ^d	27	22	33	1.77	-1.41	0.55	T	12	17	6	7	s.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	52	52.6	+1.9	86	10	31	22	28	1.43	-1.06	0.80	T	12	11	6	13	w.	U. S. Weather Bureau.
Huntingdon.....	Huntingdon.....	650	34	51.3	+1.7	86	10	20	22	45	2.54	-0.80	1.51	T	12	11	8	11	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster.....	Lancaster.....	255	34	51.4	+0.6	89	9	21	22	44	1.28	-2.20	0.45	0	7	16	10	4	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	24	47.8	+2.0	83	10	20	22	43	2.32	-0.86	0.45	0	8	14	7	9	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	81	52.2	+1.7	87	10	27	22	36	3.61	+0.26	1.01	T	11	16	6	8	nw.	S. B. Benzing.
Lewisburg.....	Union.....	450	47	50.5	+2.3	87	11	23	22	45	3.39	-0.16	1.45	T	10	7	13	10	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	7	50.6	.....	88	10	19	22	42	2.10	.....	0.80	T	10	.....	.....	.....	.....	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	2	52.1	.....	88	10	30	3	35	1.55	.....	0.50	0	11	20	2	8	nw.	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	32	49.8	+1.0	86	10	28	21 ^d	39	3.10	-0.83	1.22	T	7	11	10	9	w.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	18	52.8	+3.0	88	10	24	22	36	2.82	-1.18	1.18	T	10	11	7	12	nw.	Wellington Smith.
Montrose.....	Susquehanna.....	1,658	19	43.0	-1.1	78	10	14	22	37	2.21	-1.33	0.70	0	8	18	6	6	w.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	20	41.0	-2.0	77	10	17	22	30	1.92	-2.24	1.10	1.5	11	7	12	11	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	10	47.4	.....	83	10	19	22	43	2.81	-1.69	1.08	0	10	9	17	4	w.	A. H. Boatman.
Narberth.....	Montgomery.....	300	3	52.4	.....	86	10	28	22	35	2.41	.....	0.73	T	11	10	10	10	nw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	38	50.7	.....	85	10	25	6	41	2.35	.....	0.91	0	12	20	2	8	sw.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	5	49.2	.....	84	10	27	22	37	2.46	.....	0.62	0	10	13	8	9	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	51	54.0	+3.2	87	10	34	22	25	1.52	-1.39	0.42	0	12	6	14	10	nw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	6	53.1	.....	85	10	34	6 ^d	26	2.83	.....	0.97	0	11	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	11	52.2	.....	85	10 ^d	26	22	44	2.53	.....	0.96	0	10	15	12	3	s.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	37	50.0	+1.6	84	10	25	6 ^d	42	3.73	+0.54	1.65	0	10	13	9	8	nw.	John E. Benner.
Reading.....	Berks.....	325	52	52.3	+2.0	85	10	31	22	30	1.83	-1.34	0.73	0	12	11	9	11	uw.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	11	51.1	.....	83 ^b	9	29 ^d	22	33 ^d	2.26	.....	0.76	0	10	11	10	9	w.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	27	48.6	+1.5	82	10	26	22	36	3.44	+0.79	1.30	0.1	14	8	12	10	nw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	32	50.0	+0.1	88	11	23	22 ^d	47	3.72	+0.16	1.65	0	7	12	9	9	w.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	26	53.4	.....	85	10 ^d	30	6 ^d	32	1.98	-1.24	0.70	0	10	11	12	7	nw.	W. S. Guiles.
State College.....	Center.....	1,217	37	48.2	+0.8	82	10	23	22	34	3.17	-0.07	1.46	T	10	12	10	8	w.	C. A. Kern.
Towanda.....	Bradford.....	754	27	47.6	+1.0	83	10	20	22	41	2.32	-0.68	0.54	T	13	9	9	12	n.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	56	45.8	+1.2	82	10	17	22	43	2.38	-1.26	0.85	T	8	19	6	5	nw.	George W. Hill.
West Chester.....	Chester.....	455	84	51.6	+1.9	84	10	23	3 ^d	33	1.87	-1.75	0.73	0	11	18	5	7	w.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	35	51.1	+2.5	86	10	24	22	42	3.00	-0.42	1.10	T	10	20	1	9	n.	Jacob April.
York.....	York.....	400	34	52.8	+2.1	88	10	24	22 ^d	43	1.41	-1.54	0.47	T	9	11	12	7	e	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	29	54.2	.....	84	8 ^d	25	22	39	4.35	+1.20	1.35	3.0	18	7	6	17	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	7	47.1 ^a	.....	80 ^a	10	17 ^a	22	45 ^a	4.40	.....	1.12	T	12	8	12	10	w.	City Engineer.
Bradys Bend.....	Armstrong.....	930	4	47.1	.....	83	10	15	22	50	3.96	.....	0.88	0.2	16	9	12	9	s.	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	31	46.8 ^a	+0.6	82 ^a	10	17 ^a	22	46 ^a	4.78	+1.91	1.40	0	12	17	8	5	.....	John Fawcett.
Claysville.....	Washington.....	1,150	18	52.3	+1.7	82	10	20	22	41	4.74	+1.18	1.14	T	14	9	8	13	ne.	J. L. Melvin.
Corry.....	Erie.....	1,400	10	46.8	.....	78	10	19	22	43	3.38	.....	1.00	1.0	14	12	7	11	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	25	50.8	+1.5	83	10	18	22	47	3.99	+0.25	2.10	4.0	13	9	15	6	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	4	47.2	.....	79	10	18	28	39	3.74	.....	1.42	T	15	13	12</			

Daily Precipitation for April, 1922.

Stations.	Drainage Basin.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Alleutown	Lehigh	.61		.22	.01	*	.31	.02	*				.30		.03	1.36				.32	.02	.03											3.23	
Altoona	Juniata	.45			.10		.12	.02	.09			.13	.04	.01	.43	1.23			.43	T.	T.	.26	.03										3.34	
Ansonia	N. Br. Susq	.30	T.		.28		.20				.11	.04	.35	.06	T.	.74				.76		.20	T.	.03									3.04	
Arendtsville	Potomac	.42										.24			.45				.02	.12	.03												1.31	
Austin	W. Br. Susq																																	4.36
Bellefonte	do.	.61			.55				1.05	.34		.25		.46					.90	.20														4.36
Bethlehem	Lehigh																																	2.31
Bloesville	Lower Susq				T.				.06			.52		.32	1.09				.32			T.			T.								2.31	
Bustletou	Lower Del	.94						.40				.25			.15	.50			.08	.07	.14												2.53	
Carlisle	Lower Susq	.31	.09	.07	T.					T.		.18	.03		1.03				.09	.08	.02	.07	.01		.02			T.					2.00	
Catawissa	N. Br. Susq		.02	.27		.03	.11		.07			.68		.06	.72	1.72					.05	T.	.03	.11									3.99	
Center Hall	Susquehanna	.12		.01						T.		.56		.04	.42	.75				.14	.04	.27			T.								2.35	
Chambersburg	Potomac	.29			T.		.02					.20			.47	.73				.05	.06	T.	.03	.11									1.96	
Clearfield	W. Br. Susq	.28				.10			.25	.13	.05	.20		.20	.24	1.34				.41	.05		.20	T.									3.45	
Coatesville	Lower Del	.97		.10			.38	.01				T.	.14		.15	.21			.04	.11	.09												2.20	
Colebrook	Lower Susq	.41	.03	.17			.09	.01	T.			.13	T.		.29	.71			.11	.12	.01	.06	T.				T.			T.			2.14	
Cresson	Juniata	.55		.10	.10				.10		.20		.25			1.30			.35		.19	.25											3.39	
Doylestown	Lower Del	.66		.20			.44	T.				.06	.27			.55			.17														2.49	
Driftwood	W. Br. Susq	.30		.30			.02	.01		.02	.04	.20	.18			.50	.80		.85		.04	.50	.20										3.96	
Emporium	W. Br. Susq	T.		T.	.08	.03	.35		.18	.09	.48	.05			.53	.41		1.10	.11	.03	.30									T.			3.74	
Ephrata	Lower Susq			.15			.23				.25				.66				.12	.05	.02												1.48	
Everett	Juniata																																	
Forest City	N. Br. Susq	.33		.27	.03		.14						1.47	.12		.78			.15	.23		.23											3.79	
Freeland	Lehigh	.30	.10		.30	.05	.36	.01	T.	.30			.64	.06		1.20				.23	.06	.03							T.				3.64	
George School	Lower Del	.95		.18			.40	.03			.07	.18	.03			T.			.11	.03	.10	.01											2.09	
Gettysburg	Potomac	.32					.04					.25		.39	.61				.02	.08	.03		.05										1.79	
Girardville	Schuylkill	.64		.03	.42		.04	.40	.03			.97		.02	.49	.81			.30	.05	.10												4.30	
Gordou	Lower Susq	.20		.29			.16	.02	.03			.28	.40		.83				.24	.05		.06											2.56	
Gouldsboro	Lehigh	.48	.38			.08	.23					.86	.10		1.82				.38														4.33	
Graterford	Schuylkill	1.04		.11			.07	.03				.38		.73					.13	.04													2.53	
Hamburg	Schuylkill	.50		.23		.39					.24		.03	.98					.31	.06													2.74	
Hanover	Lower Susq	.33		.01		.08	.02				.24		.30	.55					.02	.08	.07	.01	.06										1.77	
Harrisburg	do.	.03		T.	.09	.02	.01	T.	.03		.18	T.	.02	.31	.56				.08	.03	T.	.07	T.										1.43	
Hawley	Upper Del		.68	.02	.22	.10		.10	.04		T.		.61	.03		1.32			.38			.01											3.51	
Holtwood	Lower Susq	.35		.03	.09		.11			.08		.23			.20	.17					.11												1.37	
Huntingdon	Juniata	.18		.05		.02	.01	.08			.17	.01		.29	1.22				.33			.17	.01										2.54	
Jersey Shore	W. Br. Susq																																	
Lancaster	Lower Susq			.10			.21					.34			.45				.03	.08	.07												1.28	
Lansford	Lehigh	.39		.25	.01		.27			.01			.45	.02		1.03				.30		.06											2.79	
Lawrenceville	N. Br. Susq	T.		.25					.40		.20	.10			.42				.25	.45		.25									T.		2.32	
Lebanon	Lower Susq	.54		.19		.11	1.01			.01	.54		.26	.63					.20	.07	T.	.05											3.61	
Lewisburg	W. Br. Susq	.24		.31		.08	T.	.15		.82			1.45						.22	.05	T.	.06											3.39	
Lloyd	W. Br. Susq	.04		.31		.05		.21	.10	.14	.26	.06		.68					.45	.78													3.08	
Lock Haven	W. Br. Susq																																	
Lykens	Susquehanna	.27		.18		.03	T.	T.			.18	.34		.13	.80				.14	.01	T.	.02											2.10	
Marcus Hook	Lower Del	.15				.03	.47				.33		.15	.15					.05	.08	.11		.01										1.55	
Mauch Chunk	Lehigh	.44		.32		.31				T.		.42			1.22				.35	.04													3.10	
Mifflintown	Juniata	.21		.13		.02	.01	.09			.45			.42	1.18				.19	T.													2.82	
Montrose	N. Br. Susq			.30		.20		.07		.25	.15				.70				.24	.30		.12											2.21	
Mount Pocono	Upper Del	1.10		*		*	.10	T.	.03		.23		.10						.10	.06		T.	T.	T.	T.								1.92	
Mount Union	Juniata			.08	T.	T.		.02	.12		.50	T.		.34	1.01				.25	.13		.09											2.46	
Muncy Valley	W. Br. Susq	.24				.07		.30		.40	.13		.01	1.08		.36			.13	.13	.12	T.	T.										2.81	
Narberth	Lower Del	.73		.12		.50	.02			.14	.29		.13	.15					.08	.13	.12	T.	T.										2.41	
Neshaminy	Lower Del	.91	.01		.15	.01		.37	.02	.03		.31			.39	.03					.05	.07											2.35	
Palmerston	Lehigh	.05		T.	.17		.29				.46			.41	.62				.36	.04	.01	.05												

Daily Precipitation for April, 1922.—Continued from page 15.

Stations.	Drainage Basin.	Day of month.																														Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31
Derry	Conemaugh	.35		T.					.24	.06		.16	.08	.03	2.10			.19	.20	.04	.15	.30						.09					3.99
Ebensburg	Conemaugh	.55		.10				.03	.08	.13		.23	.15	.02	.33	1.42		.39	T.	.03	.17	.08						.03					3.74
Edinboro	Allegheny	.03		.24				.11	.13	.21	.54	.26			.85			.27	.12	.19	.19						T.					3.10	
Elk Lick	Youghiogheny	.67		.08				.05	T.	T.	.08	T.			1.27	.56		.18	.05	T.	T.	.14					T.					3.10	
Falls Creek	Allegheny	.40		.24				.01	.03	.16	.50	.24	.06		.29	1.04		.87		.24												4.08	
Franklin	Allegheny	.39		.20				.08	.06	.02	.52	.42	.03	.10	.92			.06	.47		.11						.05	.02				3.45	
Freeport	Allegheny	2.00		.17				.13	T.	.11	.24	.22	.05	.04	1.95			.17	.20	T.		.11					.04	T.				5.43	
Greensburg	Youghiogheny	.30		.03	T.			.01	.26	.14	.01	.14	.16		1.00	1.04		.22	.13	.02	.10	.25					.01	.04	T.			3.86	
Greenville	Beaver			.24				.20	T.	.09		1.15	.22		.70	.15		.71		.20		.02					.09					3.77	
Grove City	Beaver	.09		.01	.28			.13		.12	.11	.20	.05	.06	.50	2.07		.24	.52		.10	.03					.09	.02				3.85	
Herrs Isl. Dam	Ohio	1.85	T.	.06	.01			.14	.01	.03	.33	.20	.01	.48	2.25			.04	.31		.06	.22	.04				.06	T.				6.10	
Indiana	Conemaugh	.30		.02	.16		.05		.12	.11	.20	.05	.06	.50	2.07		.26	.06	.04	T.	.19	.11					T.					4.30	
Irwin	Youghiogheny	.29		.02	T.			.17	.12	T.	.21	.10		.75	.98			.15		.13	.10	.27					.05					3.34	
Johnstown	Conemaugh	.56		.01	.06		.05	.20	.04	.02	.16	.05	.04	1.30	1.04			.45	.05	.02	.18	.22					T.	.02				4.47	
Ketner	Allegheny	.35		.21				.05	.13		.32	.11		.04	.67			.63	.40		.24											3.15	
Linesville	Beaver	.16		.24				.17	.01	.19	.37	.20	.03	T.	.41			.10	.28	T.	.10						.03	T.				2.29	
Lock No. 4	Monongahela	.38		.05	T.			.39	.05	.10	.07	.20	.04	.87	1.44			.07	.12	T.	.08	.04	.08									3.98	
Lycippus	Conemaugh	.37		.04				.36	.11		.25	.03		1.07	1.24			.19	.21		.12	.26					.04					4.29	
New Castle	Beaver	.59		.25	.02			.07	.02		.40	.20	.04	.40	1.14			.06	.71	.02		.12					.06					4.10	
Newell	Monongahela	.19		.02				.50	.11		.11	.02		.68	1.35			.04	.10		.09	.07					.01					3.32	
North Shenango	Beaver	.24		.25				.11	.04		.31	.84	.11	.03	.68			.59			T.						.07					3.27	
Parkers Landing	Allegheny	.64		.27				.15		T.	.12	.38	T.	.36	.62			.18	.66		.24	T.					.02					3.64	
Pennline	Beaver	.27		.19				.05			.57	.18	.04	T.	.53			.10	.21		.10						.08					2.32	
Pittsburgh	Ohio	.09		.01	.02		T.	T.	.15	.02	.20	.14	.01	T.	2.34			.18	.03	.03		.30					.03	.01				3.56	
Ridgway	Allegheny			.05	.06		.07	.12	.12	.13	.06	.22	.03	.36	1.51			.06	.30	.02	.12	.10	.14				.03	.02				3.89	
Saltburg	Conemaugh	.35	.02					.12	.12	.13	.06	.22	.03	.36	1.51			.06	.30	.02	.12	.10	.14				.03	.02				3.89	
Saegertown	Allegheny	.05		.05				.55	.15	.03	.88	.13		.10	.50			.35	.25	.10	.13	.05					.05					3.37	
Sharon	Beaver	.36	T.	.27			.05	T.	.05	.42	.35			.37	.80			T.	.58		.11	T.					.02					3.43	
Somerset	Youghiogheny	.56		.16	.30	.10	T.	.33	.25	T.		.12		1.50	.90			.26		.40		.45										5.33	
Summerville	Allegheny	1.05		.10	.01		.02	.01		.07	.10	.22	.03	.33	2.10			.06	.21		.30	.24	.02				.07	.01				5.15	
Summit	Beaver	.18		.20							.77	.28			.58			.37		.40												2.78	
Tionesta	Allegheny	.13		.25				*	*	.09	*	1.08	.18	.03	*	.75			.84		.22						*	.02				3.59	
Turnerville	Beaver							.09	.15	.05	.12			.88	.75			.20	.18	.03	.08	.01					.02	T.	.02			2.88	
Uniontown	Monongahela	.28		.02				.31	.12	.14	.10			.82	1.09			.27	.15	.02	.22	.29					.05	.01				3.99	
Unity Reservoir	Youghiogheny	.35		.05				.12		.13	.40	.06		*	1.82			.17	.15		.10	.25										3.78	
Vandergrift	Conemaugh	.58						.12		.13	.40	.06		*	1.82			.17	.15		.10	.25										3.07	
Warren	Allegheny	.08		.08				.08	.18		.70	.44		.50	.32			.48		.19		.02											
Washington	Ohio																																
Waynesburg	Monongahela		.75		.25				.12	.07	.12			.35	1.35					.38			.38							.25		8.64	
Westford	Beaver	.18		.18				.12	.18		1.30	T.	.05	.09	.77			.09	.38									.05				3.39	
West Newton	Youghiogheny	.40		.06				.26	T.	.12	.06	.12	.11	1.14	1.38			.16	.15	T.	.08	T.	.03				.07	T.				4.14	
Lake Drainage.																																	
Erie	Lake Erie	.01		.05	.06			.11	T.	.09	.46	.26	.13	.06	.58	.26		.28	T.	.10	T.											2.45	
West Bingham	Genesee	.05		.20				.12	.02		T.	.36	.11		.42			.21	.28		.17						T.					1.94	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch.

§ Incomplete or missing.

† Post Office address:—Greensburg.

Daily Temperatures for April, 1922.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Altoona.....	Maximum...	41	50	52	53	53	55	63	77	77	83	75	61	72	68	60	64	76	73	50	48	41	49	49	57	63	67	63	56	65	67	60.9
	Minimum....	32	29	27	40	35	42	40	52	53	61	54	41	40	50	42	32	45	43	37	34	27	21	28	26	32	36	37	30	27	34	37.6
Brookville.....	Maximum....	40	48	55	61	63	62	75	74	77	82	70	45	66	70	59	70	76	65	55	45	47	50	50	62	52	68	67	68	66	68	61.1*
	Minimum....	32	27	26	33	39	39	39	47	50	55	46	39	30	46	30	26	42	33	32	27	23	17	22	20	27	24	29	20	25	32.6*	
Catawissa.....	Maximum....	40	43	54	49	61	60	59	74	83	76	79	58	69	64	62	68	62	63	51	53	50	54	52	64	69	75	61	59	69	69	61.7
	Minimum....	35	35	26	39	34	37	41	48	52	51	55	46	38	44	48	32	46	46	39	40	28	22	30	24	28	44	43	31	28	37	38.2
Chambersburg.....	Maximum....	46	55	52	56	54	60	78	82	87	77	74	83	78	62	65	69	67	57	54	48	51	53	59	62	73	69	62	66	67	64.0	
	Minimum....	36	34	27	42	34	43	42	49	55	56	54	50	37	58	50	32	40	58	42	40	29	25	31	23	30	47	46	38	28	35	40.0
Emporium.....	Maximum....	39	43	53	61	62	61	72	72	79	82	75	55	64	69	61	67	75	68	54	47	46	48	47	59	65	69	55	51	61	64	60.8
	Minimum....	32	30	25	40	32	43	45	47	49	48	52	39	32	43	38	28	39	32	32	23	16	24	19	25	40	35	23	20	26	34.2	
Erie.....	Maximum....	43	40	50	55	53	67	78	64	78	74	67	45	48	47	49	72	76	70	59	40	39	43	48	54	59	58	46	47	56	52	55.9
	Minimum....	32	33	34	39	35	47	63	58	45	35	36	37	40	57	38	38	31	30	29	33	35	43	41	33	36	34	33	36	34	39	38.4
Grove City.....	Maximum....	52	47	51	59	65	64	77	73	76	81	76	61	66	69	66	71	75	70	52	56	46	51	51	57	58	60	57	50	62	63	62.1
	Minimum....	31	27	31	43	32	38	53	57	61	59	56	37	32	47	38	33	59	41	43	32	27	21	32	26	33	47	29	30	25	39	38.4
Harrisburg.....	Maximum....	43	48	54	50	54	53	54	53	52	58	67	60	72	63	60	64	66	65	52	52	42	52	49	60	65	72	62	59	66	64	60.7
	Minimum....	37	38	34	42	37	42	42	54	54	58	63	57	50	44	54	49	43	48	52	42	40	35	31	39	36	39	54	47	40	39	44.5
Holtwood.....	Maximum....	50	51	57	62	62	66	78	87	87	84	63	69	62	63	66	70	71	49	57	47	57	55	55	61	70	74	65	60	68	69	64.7
	Minimum....	41	40	37	42	44	42	44	46	60	60	55	52	45	54	52	38	50	54	41	41	32	28	34	31	35	44	51	45	34	43	43.8
Indiana.....	Maximum....	48	53	57	61	63	65	77	75	77	83	78	64	70	70	64	72	74	73	58	55	45	51	56	61	60	66	61	60	67	71	64.5
	Minimum....	31	28	29	43	37	44	46	56	59	57	57	39	34	56	41	33	51	45	39	34	27	22	28	25	36	47	36	31	24	32	38.3
Mifflintown.....	Maximum....	38	51	55	58	57	60	56	79	83	88	79	65	78	68	60	69	70	55	51	46	53	55	62	65	78	62	64	70	72	63	63.9
	Minimum....	37	34	25	42	33	44	44	49	56	58	49	42	52	49	35	43	54	44	40	35	24	36	27	31	53	46	35	34	41	41	41.6
Philadelphia.....	Maximum....	45	46	58	50	52	66	57	79	83	87	83	64	73	63	64	66	70	54	56	50	53	52	61	69	74	64	60	65	66	62	62.8
	Minimum....	38	36	34	40	39	38	40	56	61	65	62	52	48	49	49	46	47	54	39	39	38	34	39	37	48	56	44	42	42	45	45.8
Pittsburgh.....	Maximum....	53	50	54	64	67	63	77	76	77	80	74	49	72	68	61	72	76	72	58	47	43	47	51	58	56	62	53	54	62	68	62.1
	Minimum....	33	32	37	48	42	51	55	61	64	62	48	41	41	53	42	41	59	43	42	34	32	29	38	34	39	45	37	35	35	41	43.1
Reading.....	Maximum....	42	45	53	49	51	56	59	74	85	85	83	59	73	63	60	65	67	68	49	52	47	52	51	61	67	73	59	58	66	67	61.3
	Minimum....	36	36	33	42	37	36	40	59	59	65	56	49	44	54	46	42	49	49	39	39	35	31	34	35	37	52	44	39	37	46	43.3
Scranton.....	Maximum....	41	37	49	49	55	61	52	70	78	82	79	58	62	65	55	66	65	65	51	47	48	50	45	57	62	71	54	49	68	61	58.8
	Minimum....	34	33	31	36	40	35	40	51	54	59	52	40	40	40	43	38	47	45	40	34	27	26	32	32	41	38	33	32	40	40	38.8
Somerset.....	Maximum....	58	46	55	58	54	53	75	75	75	80	75	55	74	65	58	65	70	65	50	48	45	49	48	56	50	53	54	58	63	75	60.2
	Minimum....	30	26	27	42	31	40	45	65	55	58	52	41	38	41	39	31	45	35	29	36	31	18	30	23	39	32	30	33	35	23	30	36.6
State College.....	Maximum....	37	46	50	57	55	56	61	67	69	82	69	58	66	63	60	64	71	67	49	43	42	47	47	57	61	62	61	54	65	63	58.3
	Minimum....	32	30	26	38	32	42	41	53	54	60	54	40	36	47	42	36	47	47	37	33	26	23	30	26	32	46	37	30	31	38	38.2
Towanda.....	Maximum....	38	37	49	55	58	60	58	69	78	83	80	65	61	63	63	65	63	63	55	55	45	49	48	56	63	69	62	48	65	59	59.2
	Minimum....	33	32	29	37	41	36	41	49	49	49	49	55	42	39	42	30	46	47	36	35	27	20	28	23	27	36	27	30	24	35	36.1
Uniontown.....	Maximum....	53	55	62	60	69	65	68	80	79	85	77	59	78	68	61	73	79	71	59	53	46	50	53	62	59	62	60	57	65	69	64.9
	Minimum....	34	29	32	49	41	49	55	61	62	62	59	44	37	57	45	39	56	47	40	35	30	24	35	26	34	49	38	36	25	32	42.1
Warren.....	Maximum....	40	38	50	52	64	65	68	68	70	78	68	49	50	62	52	55	62	50	52	34	44	52	50	58	66	50	50	49	63	65	55.8
	Minimum....	29	26	28	30	32	43	45	50	54	58	49	38	32	38	35	35	50	38	34	30	25	20	26	24	45	40	33	25	28	28	35.5
Wellsboro.....	Maximum....	35	35	47	62	62	58	62	71	77	82	77	60	61	63	57	67	69	59	53	43	44	43	45	57	64	69	64	48	65	60	58.6
	Minimum....	31	30	25	37	37	36	32	47	46	49	52	36	33	40	28	40	45	33	33	22	17	25	20	25	27	34	20	22	27	27	82.9
Williamsport.....	Maximum....	40	41	53	53	59	56	53	75	80	86	82	70	66	65	61	65	64	67	58	49	51	53	52	63	67	74	70	57	73	74	62.6
	Minimum....	35	36	30	40	37	41	42	49	53	50	56	43	40	44	47	34	47	55	39	39	28	24	33	28	32	41	41	34	31	40	39.9

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

VOL. XXVII. PHILADELPHIA, PA., MAY, 1922. No. 5.

GENERAL SUMMARY.

The month opened with cold weather on the morning of the 1st with freezing temperatures at a little less than half the stations. Considerable injury to tree fruits resulted from this freeze and earlier ones, but the injury was much less serious than was sustained last year. It seems that cherries suffered most, being almost a total loss in some sections. Peaches are next in line with heavy damage in many localities. Garden vegetables and truck crops were backward during the first week of May, but under the stimulating effect of the warmer weather that followed they made very satisfactory progress during the rest of the month. Wheat, rye and oats made excellent growth during the month under very favorable weather conditions. The weather was also quite favorable for corn after planting time and many of the fields were under cultivation before the close of the month.

Hail was observed on the 15th at Center Hall, Indiana, and State College. It was said to be very severe at Indiana. On the 19th hail was observed at Hanover, Lebanon, and Mauch Chunk, and on the 27th at Ebensburg and Williamsport.

TEMPERATURE.

The average temperature for the State, as determined from the records of 77 stations was 62.5°, or 2.7° above the normal.

The highest monthly mean was 66.4° at Philadelphia, and the lowest was 55.6° at West Bingham. The highest temperature recorded in the State was 96° at Beaver Dam on the 25th; the lowest was 20° at West Bingham on the 1st. Freezing temperatures were not recorded at quite half of the stations in the State, and there were very few instances of freezing temperatures later than the 1st.

PRECIPITATION.

The average rainfall, as determined from records of 127 stations, was 3.21 inches, or 0.54 inch less than normal. The amounts at different stations varied somewhat less than usual in May. The greatest amount for the month was 7.14 inches at Girardville, and the least was 1.69 inches at Altoona. Over nearly all the State the rains occurred at intervals well suited to the needs of vegetation, though some localities had very little rain after the 20th.

The heaviest rains occurred about the 4th, 19th and 25th, but there were not many instances of more than one inch of rainfall within 24 hours. The greatest 24-hour precipitation was 2.29 inches at Palmerton on the 4th. No snow was recorded at any station during the month.

G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.				
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	350.0	451.8	78	68	64	8,101	10.9	46	sw.	7
Harrisburg.....	304.3	446.2	68	68	57	4,421	5.9	30	sw.	7
Philadelphia.....	315.8	446.2	71	67	58	7,519	10.1	36	sw.	19
Pittsburgh.....	265.3	449.0	59	75	60	6,367	8.5	39	nw.	7
Reading.....	241.0	446.0	54	68	61	3,892	5.2	26	sw.	19
Scranton.....	.....	.....	.....	73	58	4,822	6.3	31	sw.	7

* For any five-minute period.

COMPARATIVE DATA FOR MAY.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	57.3	91	24	4.24	8.41	2.26	.....	.....	.....
1889.....	60.4	96	25	5.91	12.41	2.51	.....	.....	.....
1890.....	58.5	89	23	6.71	12.41	2.96	7	11	13
1891.....	57.3	93	20	2.12	4.41	0.31	10	10	11
1892.....	58.5	91	28	5.70	9.30	3.77	7	10	14
1893.....	57.9	93	26	5.54	9.20	2.92	11	8	12
1894.....	60.8	92	27	8.88	15.02	2.72	9	8	14
1895.....	60.6	110	22	2.68	6.46	0.86	13	10	8
1896.....	65.4	98	31	2.85	6.30	1.19	10	12	9
1897.....	57.7	88	25	5.24	10.05	1.71	11	10	10
1898.....	60.0	94	22	5.11	10.15	2.79	8	9	14
1899.....	61.1	100	24	3.82	6.40	1.15	10	11	10
1900.....	60.4	96	20	2.79	7.63	0.72	13	9	9
1901.....	58.9	91	28	5.56	7.96	2.24	8	9	14
1902.....	59.8	95	25	1.96	4.45	0.29	13	11	7
1903.....	61.8	94	18	1.67	4.65	0.22	16	9	6
1904.....	61.6	94	21	3.78	7.50	2.07	12	10	9
1905.....	60.8	93	22	5.59	5.17	0.56	11	9	11
1906.....	60.0	99	23	3.23	5.59	0.93	12	10	9
1907.....	54.8	91	19	3.08	6.38	1.44	11	9	11
1908.....	61.2	96	22	6.28	10.95	3.19	10	10	11
1909.....	59.2	92	23	2.90	5.52	1.51	12	10	9
1910.....	56.8	88	24	3.38	6.08	1.73	11	10	10
1911.....	65.2	99	20	1.97	6.81	0.42	17	10	4
1912.....	61.2	91	28	3.15	5.99	0.99	14	8	9
1913.....	58.5	93	21	3.86	6.45	0.48	13	8	10
1914.....	61.5	96	19	3.34	6.52	0.90	16	9	6
1915.....	56.2	84	21	4.16	7.45	2.29	10	8	13
1916.....	61.0	93	26	3.19	6.09	1.49	12	11	8
1917.....	53.3	90	20	3.39	8.09	1.65	9	10	12
1918.....	65.1	95	21	5.04	8.37	1.81	13	12	6
1919.....	59.5	98	27	5.80	13.59	2.86	13	7	11
1920.....	56.6	92	18	2.02	3.65	0.67	17	8	6
1921.....	59.8	93	22	3.93	8.17	0.97	14	8	9
1922.....	62.5	96	20	3.21	7.14	1.69	15	8	8

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	3.6	5.1	20	2.8	4	18
Phillipsburg.....	Delaware.....	3.6	6.0	20	2.4	4	22
Mauch Chunk.....	Lehigh.....	4.3	5.4	19	3.8	31	15
Wilkes-Barre.....	Susquehanna.....	5.5	7.9	8	4.3	31	20
Williamsport.....	Susquehanna.....	3.8	5.8	21	2.3	4	20
Harrisburg.....	Susquehanna.....	5.0	5.8	8	4.5	4	17
Freeport.....	Allegheny.....	4.3	5.5	21	2.7	31	22
West Newton.....	Youghiogheny.....	1.2	3.3	20	0.6	31	20
Greensboro.....	Monongahela.....	.....	.....	.....	.....	.....	20
Pittsburgh.....	Ohio.....	4.9	6.4	8	3.5	2	22
Beaver Dam.....	Ohio.....	9.0	10.6	7	7.8	6	30

Climatological Data for May, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 01 in. or more.	Clear.	Pt. cloudy.		Cloudy.	Prevailing direction of wind.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	35	62.5	+3.1	84	11†	34	1	39	1.69	-2.28	0.29	0	12	17	9	5	w.	Lewis E. Biller.
Arendtsville.....	Adams.....	700	3	64.0 ^a	.....	88 ^a	11	32 [†]	1	41 ^a	3.77	.....	1.08	0	11	15	8	8	s.	R. C. Walton.
Bethlehem.....	Northampton.....	205	34	.....	.....	.....	.....	.....	.....	.....	3.63	-0.11	1.83	0	7	3	26	2	sw.	Prof. Chas H. Rominger
Bustleton.....	Philadelphia.....	125	3	64.8	.....	84	10†	34	1	37	2.56	.....	1.02	0	9	16	9	6	sw.	Experiment Station.
Carlisle.....	Cumberland.....	467	55	65.1	+4.9	91	11	33	1	44	3.79	-0.05	1.68	0	12	17	6	8	ne.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	25	62.6	+1.2	87	11	30	1	42	3.86	+0.19	1.00	0	10	19	3	9	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	26	59.8	0.0	84	13	39	15	40	2.32	-1.35	0.68	0	9	21	8	2	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	22	63.5	+2.3	89	11	33	1	39	3.19	-0.46	1.33	0	11	13	10	8	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	12	63.2	+2.9	93	24	26	1	51	2.45	-2.25	0.42	0	11	16	9	6	sw.	E. W. Hess.
Coatesville.....	Chester.....	380	34	64.5	+2.8	89	24	29	1	44	4.34	+0.26	2.12	0	10	11	15	5	sw.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	12	63.2	.....	86	11	37	1	37	3.18	-0.05	0.78	0	14	17	4	10	sw.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	34	59.8	+1.1	85	24	25	1	49	3.39	-1.05	0.70	0	12	17	3	11	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	21	61.8	+3.9	87	11	35	1	39	2.58	-0.95	0.88	0	7	17	8	6	n.	E. K. Hershey.
Everett.....	Bedford.....	1,080	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,873	7	59.4	.....	86	24†	38	1	36	4.60	.....	1.45	0	10	13	8	10	sw.	Theo. Reichmann.
George School.....	Bucks.....	190	15	63.4	+2.4	86	30	30	1	41	2.76	-0.78	0.77	0	9	19	10	2	sw.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	48	64.8	+3.5	90	11	32	1	42	3.91	-0.02	1.52	0	12	14	11	6	w.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	940	18	61.2	+2.7	83	11†	27	1	45	5.28	+1.48	1.10	0	10	17	3	11	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	29	62.6	+0.9	85	11	31	1	41	4.53	-0.08	1.11	0	9	18	6	7	w.	State Sanatorium.
Hanover.....	York.....	600	18	65.5	+1.6	86	11	38	1	34	3.12	-0.04	0.60	0	10	17	9	5	se.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	52	65.0	+3.3	88	11	41	1	30	3.72	+0.05	1.63	0	11	10	13	8	s.	U. S. Weather Bureau.
Huntingdon.....	Huntingdon.....	650	34	63.4	+2.7	88	11†	30	1	45	1.79	-2.51	0.34	0	10	17	7	7	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster.....	Lancaster.....	255	34	63.0	+2.0	87	11†	29	1	43	2.88	-0.42	0.74	0	7	15	12	4	se	Sup't. of Water Works.
Lawrenceville.....	Tioga.....	1,000	24	60.9 [†]	+3.4	88 [†]	24	26 [†]	1	49 [†]	0	.....	.....	.....	.....	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	81	64.6	+3.6	87	11	36	1	41	3.60	-0.49	0.88	0	11	19	7	5	sw.	S. B. Benzing.
Lewisburg.....	Union.....	450	47	63.4	+4.9	88	11	28	1	47	4.41	+0.47	1.45	0	12	15	7	9	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. J. A. Robb.
Lykens.....	Dauphin.....	680	7	62.6	.....	89	11	28	1	47	5.05	.....	1.60	0	10	17	7	7	se.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	2	66.0	.....	85	11†	36	1	36	3.32	.....	1.45	0	10	21	8	2	sw.	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	32	62.6	+2.5	86	29	30	1	44	5.02	+0.97	1.60	0	9	15	10	6	w.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	18	64.8	+4.1	92	11	33	1	46	2.23	-1.40	0.87	0	11	14	6	11	nw.	Wellington Smith.
Montrose.....	Susquehanna.....	1,658	19	56.6	+1.6	76	6†	24	1	41	3.59	-0.15	0.80	0	8	17	8	6	s.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	20	.....	.....	.....	.....	.....	.....	.....	4.33	+0.67	1.90	0	8	14	8	9	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	10	60.0	.....	83	10†	28	1	43	3.74	-0.46	0.75	0	10	15	10	6	w.	A. H. Boatman.
Narberth.....	Montgomery.....	300	3	64.4	.....	85	11	37	1	33	3.37	.....	1.03	0	8	13	7	11	sw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	33	63.6	.....	84	10†	39	9	38	3.96	.....	1.49	0	7	.....	.....	.....	.....	North Springfield Water Co.
Palmerton.....	Carbon.....	398	5	61.6	.....	84	10†	38	13	41	5.72	.....	2.29	0	9	18	8	5	s.	F. G. Bryer.
Philadelphia (a).....	Philadelphia.....	117	51	66.4	+4.2	85	11	47	1	28	2.47	-0.73	0.87	0	10	11	11	9	sw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	6	61.2	.....	84	30	43	1	29	2.83	.....	0.85	0	7	.....	.....	.....	.....	Commandant Navy Yard.
Phoenixville.....	Chester.....	100	11	64.8	.....	89	10†	33	1	40	2.16	.....	1.73	0	8	20	10	1	sw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	37	62.3	+2.7	84	10†	27	1	45	3.31	-0.76	0.98	0	7	18	9	4	nw.	John E. Benner.
Reading.....	Berks.....	325	52	65.1	+2.6	85	11	38	1	33	3.23	-0.14	1.03	0	12	10	14	7	se.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	11	65.0	.....	86	26	39	1	34	4.09	.....	1.40	0	7	15	8	8	sw.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	27	62.2	+3.4	87	24	33	1	38	2.20	-1.24	0.91	0	9	7	16	8	n.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	32	61.7	+0.6	85	11†	28	1	43	4.84	+0.74	1.35	0	12	19	5	7	w.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	26	66.2	.....	84	12†	38	1	33	2.76	-0.65	1.30	0	5	.....	.....	.....	.....	W. S. Guiles.
State College.....	Center.....	1,217	37	60.8	+1.7	83	24	36	1	35	3.81	-0.12	0.84	0	12	13	12	6	sw.	C. A. Kern.
Towanda.....	Bradford.....	754	27	60.0	+2.0	85	30	26	1	40	2.83	-0.35	1.43	0	8	12	13	6	nw.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	56	58.3	+1.5	85	29	24	1	51	2.68	-1.44	0.60	0	9	23	3	5	n.	George W. Hill.
West Chester.....	Chester.....	455	84	63.4	+2.7	83	11	37	1	33	3.33	-1.10	1.43	0	8	.....	.....	.....	.....	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	35	64.5	+3.8	88	10	33	1	42	6.10	+3.07	1.25	0	13	16	8	7	n.	Jacob April.
York.....	York.....	400	34	64.0	+2.3	88	11†	31	1	43	3.48	+0.11	0.85	0	13	14	7	10	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	29	65.2	.....	96	25	33	1	43	3.05	0.00	0.68	0	15	7	12	12	ne.	U. S. Engineer.
Bradford.....	McKean.....	1,427	7	60.0	.....	88	25	25	1	50	2.76	.....	0.70	0	11	16	6	9	s.	City Engineer.
Bradys Bend.....	Armstrong.....	930	4	59.6	.....	87	22	25	1	50	2.62	.....	0.80	0	13	17	7	8	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	31	57.9	+1.4	88	24	26	1	49	1.70	-1.93	0.50	0	8	.....	.....	.....	.....	John Fawcett.
Claysville.....	Washington.....	1,150	18	63.3	+2.0	90	24	31	1	45	3.17	-0.29	0.71	0	13	16	3	12	n.	J. L. Melvin.
Corry.....	Erie.....	1,400	10	59.1	.....	86	24	31	1	40	3.80	.....	1.60	0	10	20	3	8	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	25	62.3	+0.8	89	30	28	1	48	3.41	-0.01	0.96	0	12	14	9	8	sw.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	4	58.8	.....	82	24	30	1	42	3.57	.....	0.68	0	15	18	5	8	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,200	5	59.6	.....	84	24	28	1	46	3.43	.....	0.95	0	12	15	10			

Daily Precipitation for May, 1922.																																		
Stations.	Drainage Basin.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh				.13	1.98									.39	.04			.38	.81	.12			.01					.44				4.33	
Altoona	Juniata	.25	.21	.03	.29	.15				.06		.03			.09		.04	.21	.38	.18	.12	.03						.16				1.69		
Ansonia|||	N. Br. Susq.			.36	.25	.68	.16											*	.68	.56	.12	T.	T.				.17	.05				3.03		
Arendtsville	Potomac	.20	1.08			.15				.01		.10		.85	.15			*	1.08										.15				3.77	
Austin	W. Br. Susq.																	.19	.25	.17	.10	.12										2.29		
Bellefonte	do.	.55	.30	.25	.36													.19	.25	.17	.10	.12										2.29		
Bethlehem	Lehigh			.42	1.83		.04								.34				.40	.08								.52					3.63	
Blosserville	Lower Susq.	.20	1.30									.35				.24			1.20								.20						3.49	
Bustleton	Lower Del.	.11	.68	.43									.11	.01				.10	.65	.40	.08							.13					2.56	
Carlisle	Lower Susq.	.24	1.68			.10	.08			.02		.13				.10	.65	.40	T.			.05				T.	.23						3.79	
Catawissa	N. Br. Susq.	.12	.78	.07	T.	.25							.37	.63	T.	.20	.52	.16	T.		T.					.76							3.86	
Center Hall	Susquehanna	.01	.37											.42		.12	.68	.24	.16							.10	.22						2.32	
Chambersburg	Potomac	.16	1.33	.06		.06				.12	.05			.42		.15	.58	.24								T.	.02						3.19	
Clearfield	W. Br. Susq.	.10	.41	T.	.15					.07				.15	.42		.25	.41	.32	T.	.08						T.	.09					2.45	
Coatesville	Lower Del.	.36	2.12	.20									.01	.14		.38	.65	.25	.05			.05	.03				.18						4.34	
Colebrook	Lower Susq.	.25	.78	.28	T.	.05				.01		.03	.12	T.	.28	.54	.43	T.	.05	.03						.05	.28						3.18	
Cresson|||	Juniata	.10	T.	.40	.45					.10	.06					T.	.65	1.25	.15								.30	.03					3.49	
Doylesstown	Lower Del.	.14	.70	.74									.29				.84		.25		T.						.34						3.30	
Driftwood	W. Br. Susq.	.30	.25		T.								.01	.70		.25	.05	.10	T.	.08						1.30							3.04	
Emporium	W. Br. Susq.	.30	.70	.09	T.	.18							.39	.50		.10	.39	.50	.03	.09							.57						3.39	
Ephrata	Lower Susq.	.34	.88			.02									.08			T.	.52	.42							.32						2.58	
Everett	Juniata																																	
Forest City	N. Br. Susq.		.22	.90		.54												.39	1.17		.07					.41							3.70	
Freeland	Lehigh		.34	1.40	T.	.24	T.								.32	.02			.44	1.45	.24					.10		.05					4.60	
George School	Lower Del.	.01	.68	.77									.22	.02			T.	.67	.01			.21				.17	T.						2.76	
Gettysburg	Potomac	.21	1.00	1.52		.02				.10	.20			.04	.08		.03	.41	.22							.08		.03					3.91	
Girardville	Schuylkill	.47	.73	.92		.17							.89	.07		.37	1.35	1.62							.45	.07							7.14	
Gordon	Lower Susq.		.90	.66		.18							.39	.06		.04	1.10	1.10								.02	.83						5.28	
Gouldsboro||	Lehigh		.32	1.06		.22							.14	.12			.46	1.54	.28							.36							4.50	
Graterford	Schuylkill		.49	.62									T.	.02		.12	.47	.14									.21					.03	2.10	
Hamburg	Schuylkill	.20	.68	.69		.02					T.		.42				.91	1.11	.18								.32						4.53	
Hanover	Lower Susq.	.15	.60	.18		.04				T.		.48		.27	.33		T.	.59	.41								.07						3.12	
Harrisburg**	do.	.15	1.51	.18	T.	.03				.01		T.		.75	.06		.34	.28	.27	T.		T.				.14							3.72	
Hawley|||	Upper Del.			1.20	.02	.11											.30	1.12	.21	T.						T.	.22						3.18	
Holtwood||	Lower Susq.	T.		.27	.73	.06									.41			.36									.05						1.88	
Huntingdon	Juniata	.10	.34		.26	.14						.19		T.	.07		.14	.32	.21	T.	.02												1.79	
Jersey Shore	W. Br. Susq.																																	
Lancaster	Lower Susq.	.08	.72	.78											.04		T.	.32	.62								.32						2.88	
Lansford|||	Lehigh		.52	.03		.16											1.70	1.62	.62								.28		T.				4.93	
Lawrenceville	N. Br. Susq.																																	
Lebanon	Lower Susq.	.15	.54	.88		.02							.01	.10		.88	.52	.05			.01					.44							3.60	
Lewisburg	W. Br. Susq.	.11	.92		.19	.17							.14	.02		.03	.95	.88	T.	.02						1.45	.03	T.					4.41	
Lloyd	W. Br. Susq.	.13	.24	.14													.81	.35								.48							2.25	
Loek Haven	W. Br. Susq.																																	
Lykens	Susquehanna	.08	.45	.75	.01	.20						T.		.27	.01		T.	1.60	1.48								.20						5.05	
Marcus Hook	Lower Del.	.18	.56	.14						.03				.32	.09		.66	.08			1.45					.04	.09						3.32	
Mauch Chunk	Lehigh	.23	1.60	.41		.12								.32	.20			1.10	.92							.12							5.02	
Mifflintown	Juniata	.23	.35		.24	.07						.05	.02	.08	.02	.08	.87	.22									T.						2.23	
Montrose	N. Br. Susq.		.65	.40		.54											.45	.80			.25					.30		.20					3.59	
Mount Pocono	Upper Del.		* 1.30		.20					.01			.12				T.	.60	1.90							.20							4.33	
Mount Union	Juniata	.16	.74	.06		.25		T.		.15				.24		.24	.61	.07								T.							2.52	
Nuncy Valley	W. Br. Susq.	.02	.52	.75		.39							T.	.13		T.	.60	.69	T.	.07		.07				.48		.09					3.74	
Narberth	Lower Del.	.11	.74	.57											.16		.59	1.03	.07								.10						3.37	
Neshaminy|||	Lower Del.		.19	1.49	.01								.12	T.			.14	.22								.57		.16					3.96	
Palmerton	Lehigh	.41	2.29		.02								.44	.76		.20	.71	.75								.14							5.72	
Philadelphia (a.)	Lower Del.	.17	.70	.17									.05	.03		.47	.25	T.			.55					.01	.07						2.47	
Philadelphia (d.)|||	do.		.20	.80																														

Daily Precipitation for May, 1922.—Continued from page 19.

Stations.	Drainage Basin.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Derry.....	Conemaugh.....			.12	.87	.14	.08	.12			.12		.17					.46	.19	.14		.04				.96							3.41				
Ebensburg.....	Conemaugh.....		.10	.68	.11	.52	.15				.10		.15			.02		.12	.28	.65		.11				.06	.47	.05					3.57				
Edinboro.....	Allegheny.....		.56	.03		T.	.20				T.		.04		T.			.08	.13	1.01	.23	.04				.36							2.68				
Elk Lick.....	Youghiogheny.....		.21	.95	.05	.11	.08				.10		.30			T.		.61	.49	.28						.05	.20						3.43				
Falls Creek.....	Allegheny.....		.84	.10		.12	.20								.11		.05	.30	.84	.10	.12					.44	.03						3.25				
Franklin.....	Allegheny.....			.25			.40				.04					.25		.25	.06	.46	.72	.05					.27	.52					3.27				
Freeport.....	Allegheny.....			.55	.10	.03	.22				.06	.10	.07		T.		.19	.20	.40	.39	.18						.21	.19					2.89				
Greensburg.....	Youghiogheny.....		.26	.89	.07	.19	.18				.19		.12		.01	.02	.50	.61	.28	.02	.03					.14	.18						3.69				
Greenville.....	Beaver.....			.47			.25				.01		T.				.11	.07	.06	.41	.06					.75	.26						2.45				
Grove City.....	Beaver.....		.25	.09	.02	.01	.45							T.			.22	.09	1.07	.33	.08					.55	.11						3.27				
Herr's Isl. Dam.....	Ohio.....			.17	.68	.15	.08				.09	.12		T.	T.		T.	.13	.23	.35	.08	.17				T.	.75	.01					2.91				
Indiana.....	Conemaugh.....		.22	.93		.42	.21				.14		.10			.95		.26	.50	.40	.05	.10				T.	.25						4.53				
Irwin.....	Youghiogheny.....		.18	.52	.03	.43	.13				.16				.02	T.	.10	.25	.31	.42	.05	.03				T.	.09						2.72				
Johnstown.....	Conemaugh.....		.19	.29	T.	.25	.11				.09		.14			T.	.10	.20	.37	.32	.01	.06				T.	.09	T.					2.73				
Ketner.....	Allegheny.....		.15	.16			.37									.15		.17	.38	.62	.17	.07				.51	.20						2.75				
Linesville.....	Beaver.....			.50			.39				.02		.04			.01		.12	.04	.52	.32	.20				.57	.20						2.93				
Lock No. 4.....	Monongahela.....		.14	.58	.24	.08	.12				.11	.34					.07	.26	.47	.05	.02						.06	.02					2.44				
Lycippus.....	Conemaugh.....		.09	.29			.53				.32		.12			.10		.53	.42	.19	.10						.09						2.37				
New Castle.....	Beaver.....			.30	.04	.61	.53				.17	.02						.12	.07	.40	.31	.03				.26	.22	.03					3.10				
Newell.....	Monongahela.....		.11	.49	.05	.23	.06				.29							.11	.21	.57	.01						.56						2.69				
North Shenango.....	Beaver.....			.43			.55			.07								.14	.06	.37	.24	.03				.76	.21						2.86				
Parkers Landing.....	Allegheny.....			.22	T.	.04	.28				.01					T.		.16	.06	.23	.40	.18				.21	T.						2.13				
Pennline.....	Beaver.....			.65			.48								.07			.16	.06	.23	.40	.18				.41	.05						2.70				
Pittsburgh.....	Ohio.....		.16	.52	.11	T.	.08				.20		T.	T.		T.		.33	.20	.06	T.	.13				.81	.02						2.69				
Ridgway.....	Allegheny.....						.32											.34	.66	.25		.08				.17							1.72				
Saltsburg.....	Conemaugh.....			.16	.49	.06	.28				T.	.18	T.	.15	.01		.35	.05	.28	.24	.21	.05				.28							2.79				
Saegertown.....	Allegheny.....		.47			.02	.42										.10	1.06	.33	.10						.70							3.29				
Sharon.....	Beaver.....		T.	.26			.45				.03							.24	.27	.59						.38	.20						2.42				
Somerset.....	Youghiogheny.....		.26		.97	.05	.26	.28		.20	.45	.31		.22				.48	.29	.27	.11	.11				.10	.20						4.56				
Springdale.....	Allegheny.....			.19	.20	.06	.10				.16	.06	.03		.01			.17	.21	.75	.14	.13					.08	.11					2.40				
Summit.....	Beaver.....			.12			.42											.16	.65	.46	.30					.35	.19						2.65				
Tionesta.....	Allegheny.....		.31				.53											.35	*	*	.63	.11				.75	.34						3.02				
Turnerville.....	Beaver.....			.40			.30											*	*	*	.70	.20					.60	.15					2.35				
Uniontown.....	Monongahela.....		.08	.28	.26	.15	T.				.48			.01				.23	.14	.50	.03			.03		.12	.07						2.21				
Unity Reservoir.....	Youghiogheny.....		.16	.78	.08	.15	.13				.70		.10			.04		.50	.55	.21	.04	.03				T.	.07						3.16				
Vandergrift.....	Conemaugh.....		.15	.20			.24				.13		.19			.09		.27	.17	.30	.03					.10	.22						2.09				
Warren.....	Allegheny.....		.20	.25	.06	.10	.22						.02			.02		.16	.46	.40	.24	.10				.77							3.00				
Washington.....	Ohio.....		.18	.31	.13		.11				.45					.07		.37	.26	.15	.04	.02				.02	.01						2.12				
Waynesburg.....	Monongahela.....																																				
Westford.....	Beaver.....			.45			.53				T.							.13	.05	.17	.37					.56	.22						2.48				
West Newton.....	Youghiogheny.....		T.	.18	.65	.35	.10				.07	.13						.13	.12	.27	.42	.02					T.						2.44				
Lake Drainage.																																					
Erie***.....	Lake Erie.....			.63			.34				T.	.01			T.			.06	.14	T.	.36					.44							1.98				
West Bingham.....	Genesee.....			.05	.30	.02	.55	.23							T.			T.	.70	.48	.05	T.					.39						2.77				

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch.

§ Incomplete or missing.

† Post Office address:—Greensburg.

Daily Temperatures for May, 1922.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
Altoona.....	Maximum...	73	80	74	63	77	75	68	71	74	77	84	78	75	76	77	81	69	66	65	68	68	75	80	84	73	83	79	76	82	81	79	75.4
	Minimum...	34	45	49	55	54	54	50	42	43	53	55	58	40	49	47	42	53	54	51	49	55	51	47	49	59	63	49	44	47	47	49	49.6
Brookville.....	Maximum...	75	79	68	68	67	77	66	69	78	60	63	76	77	77	75	80	64	65	66	58	67	59	84	88	79	80	75	78	82	86	81	73.2
	Minimum...	26	30	39	52	37	46	48	32	37	48	45	41	34	46	40	34	52	54	52	51	49	44	40	43	58	48	40	40	33	36	43	42	42.6
Catawissa.....	Maximum...	71	71	75	66	72	75	67	74	71	85	87	75	79	67	75	83	68	69	69	67	64	78	84	86	77	84	69	78	83	86	82	75.4
	Minimum...	30	40	48	61	50	54	57	47	39	50	45	48	38	50	53	44	53	54	54	51	55	57	48	48	60	63	48	45	45	50	55	49.7
Chambersburg.....	Maximum...	72	79	73	65	75	75	76	77	75	77	89	83	77	73	76	78	73	67	70	71	78	79	85	84	83	82	76	76	80	81	77	76.8
	Minimum...	33	41	46	52	54	57	56	51	42	54	50	55	44	53	50	45	52	55	55	45	53	50	52	53	52	64	57	46	44	45	50	50.2
Emporium.....	Maximum...	74	77	73	70	75	76	65	69	75	82	82	70	74	70	73	76	64	65	65	64	69	75	79	85	74	79	73	75	80	82	80	73.9
	Minimum...	25	31	37	58	55	45	53	38	37	46	42	54	33	50	53	39	52	55	53	52	56	50	43	40	60	58	41	33	37	44	45	45.6
Erie.....	Maximum...	65	74	65	64	64	76	56	60	76	72	74	64	64	67	69	71	70	72	62	58	63	67	73	80	72	77	64	69	75	78	83	69.2
	Minimum...	42	51	54	54	54	54	51	44	53	55	57	51	47	52	52	58	57	53	53	52	48	58	61	62	59	53	45	52	56	62	53.3	
Grove City.....	Maximum...	73	78	76	63	74	73	66	65	73	75	83	78	73	73	76	72	69	61	60	71	73	80	86	80	75	75	72	79	81	80	73.7	
	Minimum...	33	40	49	54	45	43	40	37	47	57	50	57	42	43	47	42	56	53	51	51	59	47	51	58	62	52	42	45	51	57	49.6	
Harrisburg.....	Maximum...	71	78	69	65	71	72	75	74	76	78	88	72	77	77	73	78	63	67	71	70	78	78	83	82	82	67	74	80	81	76	74	77.4
	Minimum...	41	50	55	55	51	57	59	54	50	57	62	55	48	54	56	53	52	55	56	52	58	61	62	58	60	67	56	55	52	53	56	58	55.2
Holtwood.....	Maximum...	71	79	71	67	65	73	79	72	73	79	82	75	77	79	77	77	73	70	77	79	82	81	85	82	83	84	62	75	83	81	78	76.5
	Minimum...	39	42	50	57	52	52	59	57	50	57	63	63	54	57	61	57	57	61	63	55	61	63	62	56	56	62	59	56	45	52	55	55.9
Indiana.....	Maximum...	77	81	76	64	74	76	69	73	80	77	86	82	77	75	74	80	76	63	62	59	69	78	86	90	85	79	78	79	87	88	83	76.9
	Minimum...	35	44	49	59	55	53	50	38	48	56	55	60	36	48	46	43	54	53	51	50	56	50	51	55	66	55	45	46	45	47	53	50.0
Mifflintown.....	Maximum...	79	85	74	64	75	75	74	78	79	83	92	80	77	74	77	78	72	65	69	72	75	79	85	88	82	87	70	80	88	87	80	78.2
	Minimum...	33	41	48	56	55	57	57	50	42	52	51	56	42	56	45	55	55	55	47	57	54	51	50	59	67	53	48	45	50	53	51.5	
Philadelphia.....	Maximum...	70	76	73	69	64	69	81	74	77	84	85	74	75	75	76	77	66	69	74	79	83	79	80	82	82	85	71	74	81	83	78	76.3
	Minimum...	47	48	55	55	51	53	58	55	55	60	61	55	51	54	58	55	52	58	61	60	65	65	63	60	66	52	49	54	59	60	66.6	
Pittsburgh.....	Maximum...	74	78	69	64	71	73	67	70	82	75	82	77	70	72	72	78	66	70	60	63	75	78	84	88	79	74	78	76	80	84	81	74.5
	Minimum...	40	51	61	57	54	53	53	47	53	62	57	58	50	51	52	51	56	55	53	54	58	55	58	62	66	65	58	53	54	56	64	55.4
Reading.....	Maximum...	71	79	72	66	68	73	78	73	76	85	85	74	76	67	73	77	64	67	72	75	77	78	84	84	83	85	66	74	81	83	79	75.6
	Minimum...	38	51	57	53	49	53	60	51	51	59	59	56	47	54	55	50	53	57	59	54	58	58	60	60	66	52	47	52	58	59	54.6	
Scranton.....	Maximum...	71	79	76	69	67	74	71	66	74	79	74	68	73	70	77	80	71	66	65	69	75	75	79	87	70	81	68	74	82	85	77	73.3
	Minimum...	33	44	49	48	47	54	54	47	45	56	52	46	44	51	54	47	53	54	54	48	57	58	52	53	61	58	50	46	47	52	54	50.6
Somerset.....	Maximum...	75	79	60	64	72	73	65	73	65	75	70	79	70	70	68	75	65	59	58	63	70	79	83	84	78	75	75	81	82	80	....	72.2*
	Minimum...	36	43	45	53	52	50	48	46	40	45	45	50	42	42	45	41	50	50	48	48	53	45	48	55	58	45	50	41	48	46	....	46.9*
State College.....	Maximum...	64	79	64	66	69	73	67	70	68	79	77	73	68	67	70	75	67	63	63	64	70	74	79	83	73	75	69	74	79	75	72	71.3
	Minimum...	36	47	49	56	51	52	57	42	42	52	51	49	41	51	50	49	51	52	50	52	55	54	57	48	58	60	49	45	46	51	56	50.3
Towanda.....	Maximum...	61	77	77	74	68	72	71	64	72	74	76	66	72	70	74	81	72	66	66	70	73	74	77	83	70	78	68	74	73	85	76	72.7
	Minimum...	26	37	40	55	48	53	53	46	37	52	46	43	37	43	47	41	49	56	54	52	57	55	54	61	59	45	40	42	48	49	47.4	
Uniontown.....	Maximum...	76	81	74	70	76	75	77	72	85	76	83	80	73	74	76	80	75	70	63	68	77	79	85	90	81	75	77	81	84	84	77.2	
	Minimum...	33	44	51	61	52	54	54	40	47	60	52	65	47	47	47	45	56	56	53	54	57	49	63	65	65	44	58	50	45	49	55	52.8
Warren.....	Maximum...	70	72	65	68	76	75	60	65	79	80	82	70	75	75	76	79	69	66	61	58	68	78	84	88	78	75	78	80	88	85	74.2	
	Minimum...	30	34	44	57	53	46	57	35	45	50	46	50	37	52	52	41	51	50	51	52	55	50	45	40	61	56	45	36	42	47	53	47.5
Wellsboro.....	Maximum...	75	77	75	70	71	75	65	65	74	80	78	65	71	68	74	79	70	65	60	62	69	72	72	84	72	78	69	75	85	84	77	72.8
	Minimum...	24	32	37	50	50	49	53	41	33	48	39	46	32	43	47	37	49	50	51	52	55	50	46	40	59	50	40	32	37	42	45	43.0
Williamsport.....	Maximum...	75	82	79	68	74	75	74	73	77	88	87	83	78	74	74	78	76	66	68	68	77	78	85	85	82	84	82	77	85	83	72	78.0
	Minimum...	33	42	47	61	53	51	57	48	43	52	49	57	41	50	54	46	55	55	55	55	56	57	49	49	60	61	49	43	45	52	57	61.0

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

VOL. XXVII. PHILADELPHIA, PA., JUNE, 1922. No. 6.

GENERAL SUMMARY.

The weather during the month was mostly favorable, and all kinds of growing crops made good progress. However, it was a comparatively rainy month over the greater part of the State, and wet weather interfered at times with cultivation and harvesting, especially in the eastern and northeastern counties. On the other hand a few central and western counties had less than the normal June rainfall and would have been benefited by larger amounts of rain during the middle of the month. In the eastern section many fields of clover and alfalfa could not be put up in good condition on account of rainy weather. Wheat, oats, and rye were beaten down in some places by the heavy rains, and further losses resulted from grains getting too wet in the shock.

TEMPERATURE.

The average temperature for the State, as determined from the records of 78 stations was 69.5°, or 1.9° above the normal. The highest monthly mean was 74.6° at Shawmont, and the lowest was 59.4° at Mount Pocono. The highest temperature recorded in the State was 96° at New Castle on the 24th; the lowest was 30° at West Bingham on the 13th.

PRECIPITATION.

The average rainfall, as determined from the records of 126 stations, was 5.11 inches, or 0.91 inch above the normal. The greatest amount for the month was 12.46 inches at Forest City, and the least was 1.78 inches at Beaver Falls. The greatest 24-hour precipitation was 4.60 inches at Forest City on the 3d.

UNUSUAL STORMS.

The following notes relate to the most important damaging storms concerning which information has been received.

Dushore, June 11.—A severe tornado moved southeastward along the edge of the town at 10:30 p. m., and wrought destruction along a course of eight miles. The township election house was completely razed and the safe and stove dropped nearly 200 feet away. Miss Mary Stiff was killed and her house was shattered. At the farm of William Kast virtually all buildings were wrecked. Both Mr. and Mrs. Kast were injured, and several horses and cows were crushed under falling timbers in the barn. The orchard was destroyed and the piano was found half a mile from the house. On seven other premises buildings were partially or wholly wrecked and some of the orchards were ruined. Residents of Dushore estimate the losses at \$25,000 to \$50,000, not including damage to crops and orchards, which alone amounted to several thousand dollars.

Carbondale, July 17.—There was serious damage from flooding along the Lackawanna River from Scranton to above Carbondale, resulting from the heavy thunderstorms of June 17. In Carbondale there was an accumulation of debris at the lower bridge, which caused water to rise to a depth of three feet in some of the principal streets. The water filled hundreds of cellars and entered many stores and dwellings. Sidebanks of the river were washed away about ten feet in parts of upper Carbondale and trees were left standing 10 feet out in the stream. Coal mines along the river from Carbondale to Jermyrn were flooded. In the city of Scranton the river rose eight feet during the night and some persons were obliged to move temporarily from their homes. The total damage in the valley approached a million dollars.

G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.				
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	Highest.	Direction.	Date.
Erie.....	308.0	455.1	68	70	65	7,928	11.0	43	w.	17
Harrisburg.....	270.6	448.9	60	72	66	4,084	5.7	27	sw.	11
Philadelphia.....	225.7	448.9	50	72	68	6,165	8.6	32	nw.	11
Pittsburgh.....	313.1	452.0	69	74	62	6,446	9.0	39	w.	11
Reading.....	227.0	449.0	51	75	70	3,415	4.7	30	nw.	11
Scranton.....				84	72	4,375	6.1	37	w.	12

* For any five-minute period.

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	68.4	100	30	3.04	6.90	1.08			
1889.....	66.7	95	33	5.43	10.04	2.71			
1890.....	70.1	97	33	3.42	5.74	1.30	12	11	7
1891.....	68.2	100	30	4.50	9.30	1.22	14	8	8
1892.....	71.8	99	40	5.64	10.55	1.83	9	11	10
1893.....	69.8	100	38	3.12	6.50	1.20	10	11	9
1894.....	69.6	102	30	2.57	5.31	0.61	13	12	5
1895.....	71.4	104	32	3.50	9.21	0.69	13	10	7
1896.....	67.4	98	32	4.64	9.11	1.89	10	11	9
1897.....	64.8	96	28	3.38	6.42	1.11	11	11	8
1898.....	69.6	100	33	2.79	6.96	0.56	14	11	5
1899.....	69.9	101	32	3.51	5.97	0.65	13	11	6
1900.....	69.9	97	35	3.60	10.29	1.35	11	12	7
1901.....	69.1	103	32	3.47	7.61	0.88	12	11	7
1902.....	66.0	97	32	5.97	8.93	3.35	11	12	7
1903.....	63.5	90	34	6.53	11.76	3.74	7	10	13
1904.....	67.9	96	32	4.06	6.67	1.62	12	10	8
1905.....	68.0	99	30	4.39	8.35	1.77	11	10	9
1906.....	69.3	97	28	5.43	10.29	1.40	11	12	7
1907.....	63.6	98	30	4.99	8.55	2.79	11	9	10
1908.....	68.8	102	28	2.36	4.61	0.58	19	9	2
1909.....	68.8	96	34	4.48	8.96	1.89	12	9	9
1910.....	65.4	95	32	4.31	8.68	1.33	12	8	10
1911.....	68.3	99	38	4.71	10.11	2.13	12	10	8
1912.....	65.6	96	29	3.36	8.58	0.79	13	9	8
1913.....	68.2	99	20	2.26	7.61	0.66	19	7	4
1914.....	68.6	101	25	3.71	7.05	1.17	16	8	6
1915.....	69.6	89	48	3.30	8.04	0.74	8	14	8
1916.....	63.7	89	28	6.14	12.45	2.83	11	10	9
1917.....	66.8	92	32	5.38	9.85	2.25	12	11	7
1918.....	66.0	98	29	3.42	2.65	0.44	15	11	6
1919.....	71.2	102	32	3.90	9.17	1.74	16	9	5
1920.....	67.0	99	32	4.97	8.37	2.25	12	11	7
1921.....	70.6	101	26	3.12	9.86	0.70	17	9	4
1922.....	69.5	96	30	5.11	12.46	1.78	11	11	8

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.		Highest stage.		Date.	Lowest stage.		Date.	Flood stage.
Port Jervis.....	Delaware.....	4.6	8.8	4	2.6	2	18			
Phillipsburg.....	Delaware.....	4.4	9.1	5	2.0	1	22			
Mauch Chunk.....	Lehigh.....	4.7	7.4	6	3.7	28	15			
Wilkes-Barre.....	Susquehanna.....	9.1	13.1	18	3.8	2	20			
Williamsport.....	Susquehanna.....	3.7	8.5	4	1.4	27	20			
Harrisburg.....	Susquehanna.....	5.8	8.2	6	4.2	2	17			
Freepport.....	Allegheny.....	3.9	9.4	13	2.5	27	22			
West Newton.....	Youghiogheny.....	0.7	1.8	30	0.2	26	20			
Greensboro.....	Monongahela.....	5.9	10.5	14	3.7	26	22			
Pittsburgh.....	Ohio.....	5.9	10.5	14	3.7	26	22			
Beaver Dam.....	Ohio.....	8.6	12.0	14	7.3	18	30			

Climatological Data for June, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation of in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	35	68.2	+2.0	89	24	42	13	86	2.53	-1.34	0.55	0	14	15	15	0	w.	Lewis E. Biller.
Arendtsville.....	Adams.....	700	3	71.8 ^a		92 ^a	25	44 ^a	13	38 ^a	6.57		3.07	0	12	15	7	8	nw.	R. C. Walton.
Bethlehem.....	Northampton.....	205	38																sw.	Prof. Chas H. Rominger
Bustleton.....	Philadelphia.....	125	3	72.4		89	30	49	13	31	6.75		2.70	0	17	9	10	11	sw.	Experiment Station.
Carlisle.....	Cumberland.....	467	55	72.4	+1.5	91	24	50	13	38	5.46	+1.55	2.38	0	11	17	5	8	sw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	25	70.3	+2.6	90	11	44	13	40	6.56	+2.64	2.55	0	12	15	7	8	w.	H. H. Yetter.
Center Hall.....	Center.....	1,272	26	65.8	-0.3	86	9	45	13	31	8.30	+4.21	1.85	0	13	16	11	3	sw.	S. W. Smith.
Chambersburg.....	Franklin.....	681	22	72.1	+2.7	91	25	46	13	40	7.77	+3.76	2.88	0	13	7	18	5	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	12	70.0	+3.7	95	24	37	13	48	5.12	+0.13	1.40	0	15	15	8	7	sw.	E. W. Hess.
Coatesville.....	Chester.....	380	34	72.6	+2.7	91	11 ^a	48	13	38	4.16	+0.12	1.58	0	11	5	18	7	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	12	70.8		91	28	46	13	39	3.02	-1.07	0.93	0	14	13	7	10	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	34	66.0	-0.2	88	24	36	13	42	5.75	+1.26	0.93	0	14	11	13	6	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	21	72.1	+4.1	88	11 ^a	48	13	35	3.77	-0.47	0.71	0	13	12	11	7	n	E. K. Hershey.
Everett.....	Bedford.....	1,080	24																	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,970	7	66.6		88	8 ^a	38	13	35	7.51		1.40	0	18	7	14	9	sw.	Theo. Reichmann.
George School.....	Bucks.....	190	15	71.5	+3.8	89	11 ^a	47	13	34	7.24	+4.08	1.55	0	21	16	6	8	w.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	48	72.8	+3.2	94	25	46	13	37	4.96	+1.00	1.08	0	14	5	18	7	nw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	18	68.2	+3.0	87	24 ^a	42	13	44	6.93	+2.60	2.05	0	10	13	6	11	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	29	69.6	+0.1	89	28	41	12 ^a	35	3.96	-0.24	1.83	0	10	13	10	7	w.	State Sanatorium.
Hanover.....	York.....	680	18	73.0	+2.4	92	25	53	13	36	4.23	+0.51	1.03	0	16	13	13	4	w.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	52	72.2	+1.9	89	24	54	13	32	2.91	-0.64	1.05	0	13	2	12	16	s.	U. S. Weather Bureau.
Huntingdon.....	Huntingdon.....	650	34	71.0	+2.8	94	24	42	13	49	2.72	-1.76	0.66	0	12	7	7	16	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	2	71.2 ^a		92 ^a	17 ^a	43 ^a	13	42	6.14		2.10	0	11	18	6	6		C. B. McCullough.
Kennett Square.....	Chester.....	340	50		+1.5	92	28	43	13	42	3.50	-0.47	0.92	0	9	16	5	9	w.	W. P. Mercer.
Lancaster.....	Lancaster.....	255	34	71.6	+1.5	92	28	43	13	42	3.50	-0.47	0.92	0	9	16	5	9	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	24	67.5	+2.3	89	9	38	13	41	6.13	+2.15	2.60	0	12	14	7	9		C. P. Darling.
Lebanon.....	Lebanon.....	469	81	71.8	+2.5	90	24 ^a	49	13	40	4.78	+0.85	1.46	0	15	18	7	5	sw.	S. B. Benzing.
Lewisburg.....	Union.....	450	47	71.1	+3.9	91	9	44	12	40	7.35	+3.19	1.39	0	12	11	13	6	w.	Prof. W. G. Owens.
Lykens.....	Dauphin.....	680	7	69.2		91	30	43	13 ^a	45	7.66		2.47	0	14	13	11	6	nw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	2	73.6		93	25	52	13 ^a	37	4.25		0.90	0	10	15	10	5	s.	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	32	69.6	+1.8	88	7 ^a	45	13	41	5.30	+1.10	2.11	0	11	11	10	9	e.	R. K. Wintermute.
Midfintown.....	Juniaata.....	445	18	72.4	+4.6	93	24	48	13	34	6.49	+2.09	2.65	0	10	10	9	11	w.	Wellington Smith.
Montrose.....	Susquehanna.....	1,658	19	62.6	-0.1	80	7 ^a	37	13	29	11.58	+7.72	2.38	0	14	12	7	11	s.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	20	59.4	-2.2	79	11	38	13	29	8.73	+3.87	2.10	0	15	10	8	12	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	10	66.6		84	7 ^a	38	13	39	10.51	+5.63	2.36	0	13	7	15	8	sw.	A. A. Boatman.
Narberth.....	Montgomery.....	300	3	72.2		90	11	50	13	30	6.18		2.04	0	20	7	11	12	sw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	33	71.6		90	11 ^a	48	15	33	6.79		1.81	0	16	15	2	13	s.	North Springfield Water Co
Palmerton.....	Carbon.....	398	5	70.4		91	30	48	13 ^a	40	5.11		1.94	0	13	16	6	8	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	51	73.6	+2.4	90	11	56	13	22	4.56	+1.26	1.18	0	14	2	16	12	nw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	6	73.7		90	11	56	13 ^a	23	6.27		1.60	0	10					Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	11	73.2		91	9 ^a	49	13	34	6.45		1.72	0	16	11	17	2	nw.	North Springfield Water Co
Quakertown.....	Bucks.....	496	37	69.8	+1.6	88	11 ^a	44	1	32	6.66	+2.97	2.39	0	19	8	14	8	sw.	John E. Benner.
Reading.....	Berks.....	325	52	72.0	+2.2	89	28	52	13	32	7.23	+3.56	2.33	0	17	8	12	10	w.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	11																	S. A. Clarke.
Scranton.....	Lackawanna.....	805	27	68.7	+1.5	88	8	48	13	36	7.06	+3.49	2.34	0	15	3	12	15	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	32	70.6	+1.6	88	10 ^a	47	13	36	6.77	+2.52	1.47	0	13	8	17	5	w.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	26	74.6		90	11 ^a	51	13	29	5.66	+2.24	2.45	0	13	11	11	8	w.	W. S. Guiles.
State College.....	Center.....	1,217	37	67.0	+0.5	89	24	43	13	37	3.14	-1.24	0.78	0	12	11	14	5	w.	C. A. Kern.
Towanda.....	Bradford.....	754	27	67.0	-1.7	87	8 ^a	44	13	37	8.05	+4.43	1.60	0	14	8	10	12	e.	Hiram E. Bull. C. E.
Wellsboro.....	Tioga.....	1,419	56	65.8	+1.3	90	24	39	13	45	6.39	+2.34	1.95	0	16	14	7	9	sw.	George W. Hill.
West Chester.....	Chester.....	455	84	71.2	+1.8	89	11	43	13	30	6.29	+2.14	1.79	0	13	15	7	8	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	35	70.6 ^a	+2.1	90 ^a	7 ^a	45 ^a	13	40 ^a	6.94	+3.10	2.20	0	14	18	4	8	n.	Jacob April.
York.....	York.....	400	34	72.0	+2.1	91	25	42	13	42	4.20	+0.67	1.03	0	12	12	11	7	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	29	72.1		94	8 ^a	41	23	45	1.98	-2.60	0.45	0	13	6	11	13	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	7	66.8 ^b		91 ^b	24	34 ^b	13	41 ^b	8.41		2.90	0	12	11	7	12	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	4	67.2		93	24	35	23	49	2.44		0.84	0	12	13	13	4		Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	31	64.6	+2.9	92	24	34	13	46	2.38	-1.45	0.85	0	8	16	14	0		John Fawcett.
Claysville.....	Washington.....	1,150	18	70.5	+2.3	92	30	39	23	47	4.76	+0.69	1.12	0	13	13	8	9	ne.	J. L. Melvin.
Corry.....	Erie.....	1,400	10	64.1		86	24 ^a	37	13	33	4.18		1.27	0	14	13	10	7		Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	25	69.2		91	24 ^a	40	26	45	3.86	-0.87	1.62	0	10	14	11	5	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	4	65.9	+0.6	91	15	35	13	42	4.29		1.24	0	9	15	10	5	sw.	D. H. Jones.
Elk Lick.....	Somerset.....	2,700	5			88														J. S. Stevanus.
Franklin.....	Venango.....	1,050	49	68.5	+2.9	90	7 ^a	41	23	46	4.04	-0.51	1.32	0	12	18	1	11	w.	F. E. Dixon.
Greensburg.....	Westmoreland.....	1,150	14	70.5	+3.4	90	24	42	23	41	3.86	-0.53	0.81	0	12	12	14	4	ne.	Westmoreland Water Co.
Greenville.....	Mercer.....	1,950	27	68.2	+2.1	94	24	35	23	52	2.04	-2.21	0.74	0	8	1	28	1		J. R. Marks.
Grove City.....	Mercer.....	1,256	15	67.8	+3.0	91	24	40	23	41	2.64	-1.31	0.91	0	11	13	4	13	nw.	Prof. H. W. Harmon.
Indiana.....	Indiana.....	1,350	25	69.8	+2.6	91	24	43	13	39	3.91	-0.83	1.42	0	13	12	9	9	w.	R. W. Wehrle.
Irwin.....	Westmoreland.....	884	25	70.0 ^a	+1.0	86 ^a	17 ^a	42	23	40 ^a	5.62	+1.00	1.31	0	14	20	9	1		J. B. Gallagher.
Johnstown.....	Cambria.....	1,184	40	72.0	+3.1	94	24	47	13	43	3.15	-2.01	1.44	0	13	6	20	4	s.	E. C. Lorentz.
Lycippus.....	Westmoreland.....	1,420	30	69.8	+1.9	88	30	47	13 ^a	35	3.15	-1.24	0.67	0	11	7	9	14	sw.	Westmoreland Water Co
New Castle.....	Lawrence.....	808	39	70.2	+1.0	96	24	38	23	50				0		17	12	1	n.	New Castle Water Co.
Newell.....	Fayette.....	800	2	72.0		90	30	44	23	38	4.05		1.54	0	12	22	6	2	sw.	Gen. Chemical Co.
Pittsburgh.....	Allegheny.....	842	79	71.2	+0.5	89	30	49	23	32	3.12	-0.77	1.31	0	13	3	13	14	nw.	U. S. Weather Bureau.
Ridgway.....	Elk.....	1,420	18	65.2		85	24	36	13	38	4.79	+0.28	1.76	0	6	4	15	11	w.	Earl Overholser.
Saegertown.....	Crawford.....	1,116	30	65.8	+1.1	88	25	40	22	40	1.84		0.50	0	10	15	7	8	nw.	J. G. Apple.
Sharon.....	Mercer.....	940	10	68.2		88														

The departures from normal temperature and precipitation are computed only from records for stations that have ten or more years of observation, but all complete reports are used in determining means for the State. † On other dates also.

Reference letters, a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record. T, indicates precipitation less than .01 inch, rain or melted snow.
 If Post-office addresses are as follows.—Of Neshaminy, Oakford: of Beaver Dam, Beaver.

Daily Precipitation for June, 1922.

Stations.	Drainage Basin.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh.	.13	2.11	.44	.05	.01	.10	.01	.12	.02	.03	.11	.18	.03	T.	.18	.03	.11	.02	.12	.02	.03	.11	.02	.18	.03	T.	.18	.03	T.	.457			
Altoona	Juniata	.36	.06	.05	.04	.13	.43	.38	.50	.01	.31	.01	.18	.06	.12	.02	.03	.11	.02	.12	.02	.03	.11	.02	.18	.03	T.	.55	.08	T.	.253			
Ansonia	N. Br. Susq.	.29	1.33	.54	.04	.11	1.21	.50	T.	.18	.06	.12	.04	.12	.02	.03	.11	.02	.12	.02	.03	.11	.02	.18	.03	T.	.55	.08	T.	.526				
Arendtsville	Potomac.	.43	3.07	.90	.02	.24	1.04	.67	T.	.18	.06	.12	.04	.12	.02	.03	.11	.02	.12	.02	.03	.11	.02	.18	.03	T.	.55	.08	T.	.657				
Austin	W. Br. Susq.	.83	.55	.85	.05	.13	.43	.38	.50	.01	.31	.01	.18	.06	.12	.02	.03	.11	.02	.12	.02	.03	.11	.02	.18	.03	T.	.55	.08	T.	.575			
Bellefonte	do.	.83	.55	.85	.05	.13	.43	.38	.50	.01	.31	.01	.18	.06	.12	.02	.03	.11	.02	.12	.02	.03	.11	.02	.18	.03	T.	.55	.08	T.	.575			
Bethlehem	Lehigh.	.13	2.11	.44	.05	.01	.10	.01	.12	.02	.03	.11	.18	.03	T.	.18	.03	.11	.02	.12	.02	.03	.11	.02	.18	.03	T.	.55	.08	T.	.813			
Blossville	Lower Susq.	.98	2.25	.70	.85	1.20	.20	.25	.19	.01	.34	.01	.18	.06	.12	.02	.03	.11	.02	.12	.02	.03	.11	.02	.18	.03	T.	.55	.08	T.	.813			
Bustleton	Lower Del.	.15	1.43	2.70	.07	.27	.67	.05	.18	.04	.43	.01	.14	.43	.03	.20	.29	.07	.03	.14	.02	.14	.02	.14	.02	.14	.02	.14	.02	.14	.02	.675		
Carlisle	Lower Susq.	.14	1.45	1.31	.08	.13	1.16	.18	.04	.04	.43	.01	.14	.43	.03	.20	.29	.07	.03	.14	.02	.14	.02	.14	.02	.14	.02	.14	.02	.14	.02	.546		
Catawissa	N. Br. Susq.	.12	1.29	1.26	1.72	.01	.64	.39	.08	.37	.42	.01	.14	.43	.03	.20	.29	.07	.03	.14	.02	.14	.02	.14	.02	.14	.02	.14	.02	.14	.02	.656		
Center Hall	Susquehanna	.27	.34	.14	1.50	.03	1.37	.39	.08	.56	.28	.25	T.	.14	.43	.03	.20	.29	.07	.03	.14	.02	.14	.02	.14	.02	.14	.02	.14	.02	.14	.02	.830	
Chambersburg	Potomac.	.29	.89	.01	.84	.50	.58	.28	.25	T.	.14	.43	.03	.20	.29	.07	.03	.14	.02	.14	.02	.14	.02	.14	.02	.14	.02	.14	.02	.14	.02	.777		
Clearfield	W. Br. Susq.	.16	.91	.03	T.	.08	.56	.36	.06	T.	.09	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.512		
Coatesville	Lower Del.	.17	1.58	.64	.59	.20	.27	T.	.09	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.416		
Colebrook	Lower Susq.	T.	.93	.43	.36	.06	T.	.09	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	3.02		
Cresson	Juniata	.20	.15	.03	.03	.03	.03	.03	.95	.75	.31	.31	.24	.03	.24	.03	.24	.03	.24	.03	.24	.03	.24	.03	.24	.03	.24	.03	.24	.03	.24	.03	3.17	
Doylestown	Lower Del.	.23	1.29	1.40	.06	.20	.35	.01	.03	.95	.75	.31	.31	.24	.03	.24	.03	.24	.03	.24	.03	.24	.03	.24	.03	.24	.03	.24	.03	.24	.03	.24	5.56	
Driftwood	W. Br. Susq.	.10	.25	T.	.70	.07	1.00	T.	.70	.07	1.00	T.	.70	.07	1.00	T.	.70	.07	1.00	T.	.70	.07	1.00	T.	.70	.07	1.00	T.	.70	.07	1.00	.517		
Emporium	W. Br. Susq.	.38	.85	.25	.93	.86	.35	.39	.86	.35	.39	.86	.35	.39	.86	.35	.39	.86	.35	.39	.86	.35	.39	.86	.35	.39	.86	.35	.39	.86	.35	.39	5.75	
Ephrata	Lower Susq.	T.	.70	.71	.68	.18	.24	.13	.02	.06	.02	.06	.02	.06	.02	.06	.02	.06	.02	.06	.02	.06	.02	.06	.02	.06	.02	.06	.02	.06	.02	.06	3.77	
Everett	Juniata	.51	4.60	.14	.15	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	12.46	
Forest City	N. Br. Susq.	.36	1.14	1.18	.10	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	7.51	
Freeland	Lehigh.	.36	1.14	1.18	.10	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	.23	7.51	
George School	Lower Del.	.10	.86	.45	.57	.10	1.55	.01	.08	.43	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	.42	7.24	
Gettysburg	Potomac.	.68	.54	1.08	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	4.96	
Girardville	Susquehanna	T.	2.37	1.93	2.53	.29	.12	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	8.85	
Gordon	Lower Susq.	.20	1.05	1.76	1.44	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	6.93	
Gouldsboro	Lehigh.	.26	1.04	1.42	.24	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	.12	7.70	
Graterford	Schuylkill	.26	1.42	1.83	.07	.05	.11	.15	.04	.02	.02	.59	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01	4.65	
Hamburg	Schuylkill	.18	1.13	.07	.03	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	3.96	
Hanover	Lower Susq.	.03	.74	.62	1.03	.03	.02	.59	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01	.02	.01	4.23	
Harrisburg	do.	T.	1.02	.40	.01	.19	.60	T.	.26	T.	.03	.01	T.	.01	T.	.01	T.	.01	T.	.01	T.	.01	T.	.01	T.	.01	T.	.01	T.	.01	T.	.01	2.91	
Hawley	Upper Del.	.34	.20	.97	.54	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	6.05	
Holtwood	Lower Susq.	.33	.86	.64	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	2.79	
Huntingdon	Juniata	.37	.29	.05	.04	.19	.13	.08	.03	.08	.25	.02	.06	.38	.06	.38	.06	.38	.06	.38	.06	.38	.06	.38	.06	.38	.06	.38	.06	.38	.06	.38	.06	2.72
Jersey Shore	W. Br. Susq.	1.80	2.10	.08	.40	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	6.14	
Lancaster	Lower Susq.	.57	.92	.45	.40	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	3.50	
Lansford	Lehigh.	.35	1.80	.83	1.95	.43	.01	.37	.10	.10	.25	.10	.25	.10	.25	.10	.25	.10	.25	.10	.25	.10	.25	.10	.25	.10	.25	.10	.25	.10	.25	.10	.25	6.22
Lawrenceville	N. Br. Susq.	1.30	1.30	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	6.13
Lebanon	Lower Susq.	.55	.48	T.	.60	.08	.49	.21	.06	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	4.78	
Lewisburg	W. Br. Susq.	1.21	1.25	1.39	T.	T.	.19	.21	.04	.17	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02</														

Daily Precipitation for June, 1922. - Continued from page 23.

Stations.	Drainage Basin.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Derry.....	Conemaugh.....	.50	.31	.04		.10				1.50	.12							.22									.10	.95	.02			3.86		
Ebensburg.....	Conemaugh.....	.09							.26	.95	.23	1.24						.18				.15							.67	.52			4.29	
Edinboro.....	Allegheny.....																																4.40	
Elk Lick.....	Youghiogheny.....													.03																			5.81	
Falls Creek.....	Allegheny.....	.05	1.91		.07					.83	1.13							.64				.10	.04		.53		.42	.06					4.04	
Franklin|||.....	Allegheny.....	.04	.11		.08	.10				1.12	1.32	.76					.06						.12	.07		.19	.07						4.65	
Freeport|||.....	Allegheny.....		.95	.04	.21	.07	.04		.09	.19	.25	.40	T.				.82						.14	T.		.15	1.09	.19	.02			3.36		
Greensburg.....	Youghiogheny.....	.47	.46	.09	.29			.07			.16	.33		T.			.26				.01			T.								2.04		
Greenville.....	Beaver.....		.05		.21					.39	.23	.15		T.			T.						.23		.04	.74						2.64		
Grove City.....	Beaver.....	T.	.09		.11			.09	.91	.12	.37	.01	T.				.02								.01	T.		.10	.52	.30			2.85	
Herss Isl. Dam|||.....	Ohio.....	T.	.15	T.	.12	.09	T.	T.	T.	T.	T.	T.	.48		.01		.35	.19	T.		.01	T.			.05		.07	.48	.22			3.91		
Indiana.....	Conemaugh.....	.05	.50		.07	.40			.24	.18	1.42						.18	.05							.05		.07	.48	.22				5.52	
Irwin.....	Youghiogheny.....	1.31	.63	T.	.15			.06	.10	.11	.42	T.					.47	.12			.79			.02	T.	.36	.95	.03	T.			3.15		
Johnstown.....	Conemaugh.....	.02	.08	.09	.09			.03	.12	.28	.55		.02				.17				T.			T.		.02	1.44	.24					4.53	
Ketner.....	Allegheny.....	.23	.72		.82	.15	.07		.25	.20	.40						.93						.11		.12	.03	.10	.36	.04				4.00	
Linesville|||.....	Beaver.....		.04		.11	.02				.48	.23	.75					.05								.64		1.55	.13					4.39	
Lock No. 4|||.....	Monongahela.....		1.67	.12	.24	.04			.21	.25	.08	.20					.33	.09									.25	.55	.32				3.15	
Lycippus.....	Conemaugh.....	.60	.62	.08	.50	.30		T.		.11	.21						.19				.05						.67			.27			4.05	
New Castle|||.....	Beaver.....																																2.58	
Newell.....	Monongahela.....	T.	1.54	T.	1.04	.01			.14	.22	.03	.07					.16				.09						.20	.22	.33				2.49	
North Shenango|||.....	Beaver.....		.25		.06	.14			T.	.64	.48	.05					.07								T.		.10	.44	.18	.03			3.94	
Parkers Landing|||.....	Allegheny.....	.02	.25		.06	.14			T.	.64	.48	.05					.07								T.		.10	.44	.18	.03			3.12	
Pennline|||.....	Beaver.....		.03		.02	.12			T.	.61	.15	.38						.03							.55		1.65	.40					4.79	
Pittsburgh***.....	Ohio.....	.09	.08	.03	.15	T.		T.	T.	.01	.69		.01				.34	.27	T.		T.				.01	T.	.39	.97	.08				4.28	
Ridgway.....	Allegheny.....	.62	.76						.27	.44							1.76										.01	T.	.39	.97	.08			3.67
Saltsburg|||.....	Conemaugh.....	.59	.15	T.	.05				T.	.64	.55	.07					.11	.33									.10	.49	.47	.32			1.84	
Saegertown.....	Allegheny.....	T.	.05		.26				.20	.97	.75						.11										.55	.10	.58				2.78	
Sharon|||.....	Beaver.....		.03		.15	.05	.31			.21	.50	.31															.20	.05	.03				3.60	
Somerset.....	Youghiogheny.....	.06			.10	.06		.20	.80		.60						.26										.12	.30		.28			3.01	
Springdale.....	Allegheny.....		.40	.07	.16	.04				.95	.96	.90		.01			.82	.43	.01		.01					.01	.68	.43	.01				5.98	
Summit|||.....	Beaver.....					.10			*								.32									.55		2.00	.20				3.27	
Tionesta.....	Allegheny.....	.34			.10					.50	1.00						.35									.22		.35	.43				2.61	
Turnerville|||.....	Beaver.....								.23	.07	.02																	.34	.20				3.06	
Uniontown.....	Monongahela.....	.08	.65	.01					.14	.07	.30						.32	.25			.31						.18	1.02	.06	.18			5.47	
Unity Reservoir|||.....	Youghiogheny.....		.53	.12	.10			.11	.14	.07	.30						.22										.18	1.02	.06	.18			5.81	
Vandergrift.....	Conemaugh.....	.84	.25		.18	.52			.20	1.29	.45						.80	.08								.13	.35	.35	.03	*			3.90	
Warren.....	Allegheny.....	.26			.08	.04			.16	.56	1.30						.96									.10	.05		.50	1.80			4.99	
Washington.....	Ohio.....	.18	.55	.67	.10			.16	.18	.14				.03			.42	.30			.17						.17	.30					3.01	
Waynesburg|||.....	Monongahela.....		1.70	.01					.60	.02	.06						.60				.05						.18	.22	1.55				4.99	
Westford|||.....	Beaver.....		.02	T.	.12					.41	T.	.51					.13									.45		1.37					3.01	
West Newton|||.....	Youghiogheny.....		1.42	.10	.36	.03			.78	.03	.51	.87					.66	.21									.28	.45	.37	.23			6.30	
Lake Drainage.																																		
Erie***.....	Lake Erie.....	T.			.22				.25	.84	.28	.01	.01				T.	.02	.11			T.				.19	.01	.17	T.				2.11	
West Bingham.....	Genesee.....	1.24	1.03		T.	.23			T.	.13	.87						.33			T.		.20	.10			.19	T.		.03	.80	.66		5.62	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch.

§ Incomplete or missing.

†† Post Office address:—Greensburg.

Daily Temperatures for June, 1922.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
Altoona.....	{ Maximum ...	80	71	74	78	75	83	85	85	83	82	81	71	71	73	81	84	86	75	76	79	76	70	78	89	81	73	79	85	80	84	....	78.9
	{ Minimum ...	55	62	64	53	60	59	58	62	66	63	64	60	42	54	53	50	65	61	53	53	59	59	50	53	66	43	60	62	61	59	....	57.6
Brookville.....	{ Maximum ...	84	70	78	83	78	83	85	84	83	83	81	70	69	80	80	86	87	76	72	82	77	68	80	92	76	74	82	84	83	87	....	79.9
	{ Minimum ...	49	59	54	51	56	55	53	52	49	51	60	39	34	43	45	45	59	52	46	45	49	46	40	46	43	40	42	58	55	49	....	49.2
Catawissa.....	{ Maximum ...	80	70	74	82	72	85	86	83	87	84	90	77	72	71	85	87	87	89	80	83	83	72	84	88	84	78	80	89	84	87	....	81.8
	{ Minimum ...	56	63	65	56	61	62	60	59	66	64	66	54	41	55	52	50	68	63	57	54	67	58	57	48	63	51	51	67	67	60	....	58.8
Chambersburg.....	{ Maximum ...	77	79	76	84	77	86	90	88	85	88	86	77	73	68	86	86	84	82	81	82	82	78	83	90	91	81	81	89	85	88	....	82.8
	{ Minimum ...	57	65	67	56	63	69	62	60	68	66	67	64	46	56	58	57	67	64	60	60	67	59	57	50	61	56	66	69	66	63	....	61.4
Emporium.....	{ Maximum ...	82	67	74	79	75	82	83	80	82	81	79	69	69	76	78	84	81	76	67	79	75	69	78	88	68	69	76	83	82	81	....	77.4
	{ Minimum ...	50	60	62	52	56	60	53	54	59	61	68	51	36	43	50	48	61	61	52	51	60	57	50	46	57	47	49	60	64	59	....	54.6
Erie.....	{ Maximum ...	70	66	71	77	71	82	83	80	80	82	80	67	64	73	73	85	82	66	69	74	73	69	78	90	72	65	71	79	77	87	....	75.2
	{ Minimum ...	57	56	55	57	64	65	67	70	69	65	67	56	48	53	63	59	63	58	58	60	59	56	54	67	55	60	62	61	69	67	....	60.2
Grove City.....	{ Maximum ...	77	71	75	82	77	84	86	83	82	83	84	79	68	77	81	83	87	71	75	82	78	70	81	91	81	68	78	86	80	84	....	79.3
	{ Minimum ...	61	62	62	55	55	56	58	59	64	63	63	56	43	52	51	53	67	60	49	53	57	56	40	55	60	41	57	60	64	54	....	56.2
Harrisburg.....	{ Maximum ...	75	70	76	82	76	84	88	87	88	86	87	77	72	66	84	83	84	78	75	81	81	70	84	89	88	80	75	86	86	86	....	80.8
	{ Minimum ...	60	65	67	61	66	67	65	64	68	67	70	61	54	57	60	58	67	65	61	61	67	64	63	57	69	57	65	69	67	66	....	63.6
Holtwood.....	{ Maximum ...	74	70	81	83	78	84	88	87	87	82	89	80	74	68	84	83	84	78	62	77	82	73	85	89	89	81	79	86	84	88	....	78.4
	{ Minimum ...	59	64	65	61	65	68	65	62	65	67	63	59	51	54	58	59	63	62	59	61	65	63	62	57	66	58	59	66	66	64	....	58.7
Indiana.....	{ Maximum ...	85	81	78	81	81	87	87	86	83	83	81	73	68	81	84	86	88	79	81	84	81	75	83	91	86	79	86	87	82	88	....	82.3
	{ Minimum ...	59	59	62	57	54	59	56	61	64	63	63	59	51	43	54	53	54	65	60	53	57	62	58	44	53	62	44	61	61	63	....	57.7
Mifflintown.....	{ Maximum ...	83	75	75	85	77	89	90	89	91	88	91	79	76	70	89	89	81	79	86	81	77	86	93	87	80	76	90	87	87	....	83.6	
	{ Minimum ...	55	65	67	57	64	68	71	61	69	65	70	66	48	56	56	55	70	63	56	57	57	57	59	68	63	53	62	64	56	62	....	61.3
Philadelphia.....	{ Maximum ...	68	67	79	85	81	84	89	88	87	89	90	81	73	69	79	85	80	92	81	75	83	77	82	86	89	77	76	86	82	87	....	81.2
	{ Minimum ...	61	64	66	65	66	68	68	73	71	73	73	63	56	62	58	63	67	67	62	67	66	65	64	67	70	61	63	71	69	71	....	66.0
Pittsburgh.....	{ Maximum ...	81	72	75	81	80	84	86	84	83	86	83	71	66	80	82	86	85	72	80	84	77	71	81	88	78	75	84	85	83	89	....	80.4
	{ Minimum ...	65	65	61	65	66	64	62	68	68	67	66	60	53	58	59	62	67	62	59	62	63	58	49	64	55	50	65	65	67	65	....	62.0
Reading.....	{ Maximum ...	73	67	82	85	78	84	88	86	87	86	88	77	71	68	84	84	84	81	79	75	83	73	82	89	86	78	72	89	83	87	....	81.0
	{ Minimum ...	61	64	66	61	67	65	65	66	72	69	64	59	52	59	57	57	67	63	59	62	66	62	62	57	68	57	64	69	68	66	....	63.1
Scranton.....	{ Maximum ...	79	67	69	81	76	83	86	88	87	85	83	72	68	71	80	85	78	70	71	78	76	66	78	87	81	73	74	88	80	83	....	78.8
	{ Minimum ...	62	63	64	59	60	65	60	65	65	61	52	48	55	53	50	65	61	58	60	63	61	55	51	56	50	57	66	65	61	....	59.0	
Somerset.....	{ Maximum ...	80	75	74	82	74	76	86	82	81	81	80	70	75	78	80	86	85	70	80	86	75	66	75	90	85	86	84	85	80	87	....	79.8
	{ Minimum ...	49	50	56	42	60	58	56	56	58	62	62	58	42	50	52	59	61	40	46	50	60	55	41	51	60	45	62	60	61	....	54.3	
State College.....	{ Maximum ...	78	70	71	80	73	83	84	81	78	80	78	70	70	71	76	78	77	74	69	78	75	67	79	89	77	70	76	83	81	82	....	76.6
	{ Minimum ...	58	60	63	54	60	62	57	59	65	61	65	59	43	53	52	51	64	61	53	64	61	56	52	62	64	45	54	65	61	56	....	57.8
Towanda.....	{ Maximum ...	83	68	72	78	71	84	86	87	87	82	85	69	65	72	75	82	77	68	70	79	79	63	77	85	81	65	76	85	82	81	....	77.1
	{ Minimum ...	56	62	62	54	58	61	56	54	61	61	66	57	44	48	52	49	65	59	57	60	62	58	57	48	59	50	49	64	63	57	....	57.0
Uniontown.....	{ Maximum ...	83	78	75	80	80	85	86	84	82	84	84	76	69	79	82	87	87	74	79	82	80	76	79	85	83	80	86	85	83	88	....	81.4
	{ Minimum ...	62	64	61	60	65	61	61	59	67	68	70	63	46	55	55	57	68	64	59	66	64	59	42	55	67	50	64	65	66	63	....	60.9
Warren.....	{ Maximum ...	82	72	76	84	75	85	89	85	84	83	80	72	70	80	81	85	86	71	74	83	78	70	82	90	76	75	82	82	85	85	....	79.8
	{ Minimum ...	55	57	58	51	58	59	55	55	60	60	67	52	38	44	50	50	65	60	52	51	60	60	45	52	56	53	54	55	60	54	....	64.9
Wellsboro.....	{ Maximum ...	82	67	65	84	72	82	85	84	80	85	82	68	67	75	76	83	81	65	70	83	76	72	80	90	80	67	70	85	80	84	....	77.3
	{ Minimum ...	52	58	48	61	56	60	52	51	59	62	62	54	39	47	48	48	64	60	65	53	59	55	55	45	61	50	45	59	62	51	....	54.4
Williamsport.....	{ Maximum ...	80	73	74	81	80	84	90	90	89	86	89	78	72	72	85	83	84	77	73	84	85	72	85	90	86	85	.....	.....	88	....	82.0°	
	{ Minimum ...	58	64	63	56	61	64	59	59	66	64	65	64	45	53	55	51	68	66	56	57	63	60	59	50	65	50	.....	.....	64	....	59.1°	

AUG 25 1922

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

Vol. XXVII.

JULY, 1922.

No. 7.

GENERAL SUMMARY.

The State averages in temperature and rainfall indicate conditions remarkably close to normal, especially in the former element. However, both the temperature and rainfall averages were lower than in any other July since 1918.

Frequent rains occurred in all parts of the State during the first four or five days of the month, relieving the droughty conditions that had developed in some central and western counties. Considerable damage resulted from the action of high winds in some localities and from flooding that followed excessive rainfall in some places. By the middle of the month there was need for more rains in the southwestern part of the State, and, although there were heavy rains in a good many places on the 18th and scattered showers occurred on several later dates, the need for additional moisture in the soil became more extensive during the latter half of the month.

At the end of July grass lands were generally needing rain, and in some places were beginning to burn out badly. Corn, oats and potatoes, as a rule, had sufficient moisture. Truck crops and vegetables were in a flourishing condition throughout the month, being pretty well confined to sections well favored as to rainfall. Considerable damage was done to wheat in the shock during the early part of the month, and there were large losses of oats as a result of their being beaten down by winds and heavy local rains. Early potatoes ripened under unusually favorable conditions, but later varieties were beginning to need more rain toward the end of the month.

TEMPERATURE.

The average temperature for the State, as determined from the records of 77 stations, was 71.9° or 0.2° below the normal. The highest monthly mean was 76.5° at Marcus Hook, and the lowest was 64.2° at West Bingham. The highest temperature recorded in the State was 98° at Catawissa, Clearfield, Derry and Marcus Hook on the 12th, also at Johnstown on the 11th and 12th. The lowest was 38° at West Bingham on the 30th.

PRECIPITATION.

The average rainfall, as determined from the records of 124 stations, was 3.68 inches, or 0.53 inch below the normal. The greatest total for the month was 7.58 inches at Springdale, and the least was 1.45 inches at West Bingham. The greatest 24-hour precipitation was 4.14 inches at Springdale on the 2-3d. At Girardville on the 1st, 3.60 inches of rain fell between 2.45 p. m. and 4.30 p. m.

THUNDERSTORMS AND HAIL.

On the 2d there was a severe thunderstorm in Pittsburgh, when 0.46 inch of rain fell within 10 minutes, and 0.66 inch within 30 minutes. This excessive rate of fall caused serious flooding of streets and cellars. Car service was interrupted by flooding of streets and accumulation of debris along the tracks.

Losses caused by lightning were reported from many places, but it is believed they were no more numerous or serious than generally occur in July.

At York there was a fall of unusually heavy hail on the 28th. Pellets were found as large as an inch in diameter. Much damage was done to windows, fruits and tobacco in the vicinity of the station.

G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.		
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.
Erie.....	314.3	461.4	68	70	63	7,792	10.5	40	sw.
Harrisburg.....	274.0	455.2	60	75	68	3,674	4.9	28	nw.
Philadelphia.....	261.8	455.2	58	75	69	6,316	8.5	28	n.
Pittsburgh.....	335.9	458.3	73	76	59	6,773	9.1	54	sw.
Reading.....	220.0	455.0	48	76	71	1,972	2.6	22	nw.
Scranton.....	.....	.....	.....	78	66	4,125	5.5	24	s.

* For any five-minute period.

COMPARATIVE DATA FOR JULY.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	69.2	97	38	3.45	7.10	1.40	.....	.....	.....
1889.....	71.6	96	39	6.80	15.02	1.04	.....	.....	.....
1890.....	70.7	101	33	3.52	6.40	0.70	13	11	7
1891.....	67.8	97	34	6.32	11.61	2.63	11	10	10
1892.....	73.1	103	38	3.93	8.59	2.15	15	11	5
1893.....	72.1	102	36	3.15	6.27	1.58	15	12	4
1894.....	73.8	103	31	2.32	5.96	0.53	15	11	5
1895.....	69.1	102	34	3.24	6.18	1.16	12	12	7
1896.....	72.8	98	40	6.89	15.59	3.04	10	11	10
1897.....	73.4	103	41	6.26	14.51	2.10	10	11	10
1898.....	74.8	107	33	3.36	6.29	1.15	12	12	7
1899.....	72.3	101	35	3.91	8.24	1.53	12	11	8
1900.....	74.0	104	35	4.86	8.26	1.81	14	12	5
1901.....	76.4	107	45	3.88	7.34	1.52	10	13	8
1902.....	71.8	99	41	6.04	12.35	2.11	10	12	9
1903.....	71.2	98	35	5.36	8.81	1.76	13	12	6
1904.....	70.6	99	34	4.68	9.19	1.92	12	11	8
1905.....	72.6	99	39	4.87	9.78	2.49	10	12	9
1906.....	71.3	95	38	4.31	8.98	1.41	12	13	6
1907.....	71.5	96	34	3.84	9.46	1.01	15	12	4
1908.....	73.9	104	39	4.81	9.57	2.15	14	12	5
1909.....	69.7	98	34	2.14	4.50	0.75	16	11	4
1910.....	72.8	99	41	2.42	5.15	0.45	16	11	4
1911.....	73.7	105	36	2.81	7.41	0.90	16	11	4
1912.....	71.3	100	36	5.29	12.65	1.04	12	11	8
1913.....	71.8	101	40	4.16	8.00	0.82	15	10	6
1914.....	71.3	101	38	4.19	10.29	1.10	12	11	8
1915.....	70.7	98	40	5.28	12.30	1.82	10	13	8
1916.....	74.3	98	41	4.45	12.41	0.39	14	10	10
1917.....	72.1	105	40	4.33	9.76	1.90	12	12	7
1918.....	70.1	99	35	3.05	9.96	0.77	16	10	5
1919.....	72.6	104	34	5.90	14.58	1.70	16	8	7
1920.....	69.5	96	33	4.37	10.70	1.27	15	10	10
1921.....	75.9	104	45	4.13	9.19	1.23	19	9	3
1922.....	71.9	98	38	3.68	7.58	1.45	14	10	7

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	3.1	5.8	3	2.1	25	18
Phillipsburg.....	Delaware.....	3.0	7.0	4	1.0	27	22
Mauch Chunk.....	Lehigh.....	3.9	5.5	3	3.5	23	15
Wilkes-Barre.....	Susquehanna.....	5.6	12.7	3	3.0	31	20
Williamsport.....	Susquehanna.....	1.7	4.9	5	0.5	31	20
Harrisburg.....	Susquehanna.....	4.6	7.6	4	3.6	26	17
Freeport.....	Allegheny.....	2.9	6.0	3	1.8	15	22
West Newton.....	Youghiogheny.....	0.6	1.3	4	0.2	30	20
Greensboro.....	Monongahela.....	.....	.....	.....	.....	.....	20
Pittsburgh.....	Ohio.....	5.5	8.7	2	3.6	10	22
Beaver Dam.....	Ohio.....	8.4	9.8	3	6.9	18	30

Climatological Data for July, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	35	70.6	-0.5	94	12	49	6	34	3.97	+0.75	1.25	0	12	20	8	3	w.	Lewis E. Biller.
Arendtsville.....	Adams.....	700	3	73.6	.....	95*	12	51*	6	34	2.38	.....	1.47	0	7	14	12	5	s.	R. C. Walton.
Bethlehem.....	Northampton.....	205	33	74.3	.....	93	12	53	16	31	4.32	.....	0.90	0	12	14	8	9	sw.	E. E. McColm.
Bustleton.....	Philadelphia.....	125	3	74.3	.....	93	12	53	16	31	4.32	.....	0.90	0	12	14	8	9	sw.	Experiment Station.
Carlisle.....	Cumberland.....	467	55	74.6	-0.2	93	12†	54	6	32	3.31	-0.48	2.43	0	7	16	12	3	s.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	25	73.0	+0.3	98	12	50	30	38	3.43	-0.28	1.56	0	10	16	9	6	nw.	H. H. Yetter.
Center Hall.....	Center.....	1,272	26	68.6	-2.8	93	12	50	2†	39	3.44	-0.53	1.35	0	7	18	9	4	.....	S. W. Smith.
Chambersburg.....	Franklin.....	631	22	73.6	-1.1	94	12	52	6	38	3.99	+0.71	1.19	0	13	11	14	6	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	12	72.0	+0.9	98	12	48	30	43	4.63	+1.09	1.75	0	10	18	9	4	sw.	E. W. Hess.
Coatesville.....	Chester.....	380	34	74.9	+0.2	95	12	55	6†	33	5.85	+0.96	1.42	0	14	7	16	8	s.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	12	72.4	.....	91	12	52	6	32	4.40	+0.36	1.54	0	12	16	9	6	ne.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	34	68.4	-1.8	92	12	45	30	37	1.97	-2.47	0.83	0	6	16	9	6	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	21	74.1	+0.1	91	12	55	31	31	4.39	+0.01	2.15	0	11	9	17	5	n.	E. K. Hershey.
Everett.....	Bedford.....	1,080	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,970	7	68.3	.....	92	12	44	30	34	4.09	.....	0.70	0	14	7	15	9	sw.	Theo. Reichmann.
George School.....	Bucks.....	190	15	73.4	-0.2	93	13	52	16	33	3.59	-0.23	0.84	0	9	19	4	8	s.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	48	74.8	+0.8	97	12	54	31	35	6.25	+2.69	1.87	0	12	7	14	10	sw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	540	18	70.4	+0.2	91	12	48	30	35	4.79	-0.29	1.45	0	12	14	7	10	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	380	29	72.3	-1.6	93	12	50	9	33	4.80	-0.19	2.00	0	9	11	13	7	w.	State Sanatorium.
Hanover.....	York.....	600	18	75.1	-0.3	95	12	53	15	30	4.13	-0.17	1.59	0	11	15	11	5	s.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	52	74.6	+0.1	92	12	58	6	26	3.91	+0.04	1.64	0	14	7	11	13	s.	U. S. Weather Bureau.
Huntingdon.....	Huntingdon.....	650	34	72.6	+0.4	96	12	49	29†	38	4.42	+0.62	1.27	0	11	13	11	7	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	2	73.0	.....	97	12	50	30	38	3.14	.....	1.29	0	7	19	3	9	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster.....	Lancaster.....	255	34	73.8	+0.4	94	12	49	31	39	3.47	-0.37	1.65	0	8	14	10	7	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	24	69.9	-0.3	95	12	42	31	45	2.47	-1.72	1.00	0	8	20	3	8	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	81	73.5	-0.1	93	12	53	31	32	5.29	+1.10	1.70	0	11	11	16	4	sw.	S. B. Benzing.
Lewisburg.....	Union.....	450	47	73.5	+2.0	97	12	51	30	35	2.41	-1.58	0.59	0	11	13	8	10	w.	Prof. W. G. Owens.
Lykens.....	Dauphin.....	680	7	71.4	.....	96	12	46	30	40	5.73	.....	2.49	0	12	15	13	3	sw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	2	76.5	.....	98	12	56	6†	31	1.75	.....	0.67	0	9	17	10	4	s.	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	32	72.4	+0.1	96	12	51	29†	36	3.65	-1.38	1.40	0	7	10	16	5	w.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	18	75.0	+2.3	96	12	54	6†	40	5.53	+1.58	2.65	0	11	11	12	8	w.	Wellington Smith.
Montrose.....	Susquehanna.....	1,658	19	66.8	-1.4	88	12	43	30	35	2.91	-1.03	0.85	0	7	18	3	10	s.	Silas Jagger.
Mount Pocono.....	Monroe.....	1,720	20	64.3	-1.9	83	12†	46	28	26	3.50	-1.14	1.70	0	10	6	16	9	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	10	68.4	.....	92	12	45	30	37	4.63	-0.51	1.64	0	10	11	14	6	sw.	A. H. Boatman.
Narberth.....	Montgomery.....	300	3	74.0	.....	93	12	55	16	30	2.57	.....	0.78	0	10	7	14	10	sw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	33	73.3	.....	93	12†	52	16	32	3.46	.....	0.85	0	12	15	2	14	sw.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	5	73.0	.....	95	12	51	30	36	1.50	.....	0.42	0	6	20	5	6	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	51	75.5	-0.3	94	12	58	5	24	2.42	-1.91	0.67	0	10	5	14	12	sw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	6	75.8	.....	94	12	58	5	25	3.04	.....	1.03	0	7	.....	.....	.....	.....	Commandant Navy Yard.
Phoenixville.....	Chester.....	100	11	75.1	.....	91	12†	55	30†	35	4.73	.....	1.25	0	10	19	9	3	sw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	37	72.4	-0.1	94	12	51	16†	37	5.74	+1.01	1.12	0	13	13	11	7	sw.	John E. Benner.
Reading.....	Berks.....	325	52	74.4	-1.1	93	12	58	5	28	3.58	-0.64	1.75	0	12	8	16	7	se.	U. S. Weather Bureau.
Sadsburyville.....	Chester.....	649	11	74.9	.....	94	12	56	6	31	6.37	.....	1.41	0	13	10	12	9	w.	S. A. Clarke.
Scranton.....	Lackawanna.....	805	27	71.4	-0.4	95	12	49	30	32	4.48	+0.65	2.11	0	7	5	13	13	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	32	72.3	-1.2	94	12	52	29	33	2.72	-1.65	1.02	0	9	14	10	7	s.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	26	76.4	.....	93	12	57	6†	27	2.13	-2.13	0.60	0	10	.....	.....	.....	.....	W. S. Guiles.
State College.....	Center.....	1,217	37	69.0	-1.6	92	12	52	6	28	3.72	-0.01	1.43	0	7	10	18	3	s.	C. A. Kern.
Towanda.....	Bradford.....	754	27	69.6	-1.0	94	12	44	30	38	2.03	-1.84	1.20	0	7	12	9	10	nw.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	56	67.8	-1.1	92	12	40	30	41	2.02	-1.89	1.40	0	6	22	4	5	n.	George W. Hill.
West Chester.....	Chester.....	455	84	73.2	-1.1	92	12	55	6	28	3.69	-0.91	1.32	0	13	17	9	5	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	35	73.0	-0.1	95	12	50	4	36	4.39	+0.45	1.79	0	11	21	2	8	se.	Jacob April.
York.....	York.....	400	34	74.0	-0.4	93	12	52	31	36	2.69	-1.84	0.95	0	10	10	14	7	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam†.....	Beaver.....	700	29	73.8	.....	96	12	50	5	34	2.54	-1.33	1.24	0	9	7	10	14	ne.	U. S. Engineer.
Bradford.....	McKean.....	1,427	7	68.0	.....	93	11†	42	7	44	1.95	.....	0.66	0	7	14	10	7	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	4	69.4	.....	96	12	42	6	44	2.10	.....	0.72	0	5	17	7	7	n.	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	31	67.8	-0.9	94	11†	41	30	48	1.96	-2.71	0.60	0	6	22	8	1	.....	John Fawcett.
Claysville.....	Washington.....	1,150	18	72.9	+0.2	97	12	45	4†	38	2.16	-2.34	1.01	0	10	18	7	6	s.	J. L. Melvin.
Corry.....	Erie.....	1,400	10	66.4	.....	89	11	42	5	33	3.30	.....	1.18	0	10	19	8	4	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	25	71.2	-2.1	98	12	44	6	40	3.25	-1.53	1.20	0	9	18	10	3	w.	Miss N. Dixie Wineman.
Ebensburg.....	Cambria.....	2,000	4	66.6	.....	90	12	40	6	39	4.82	.....	1.70	0	10	15	8	8	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,700	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. S. Stevanus.
Franklin.....	Venango.....	1,000	49	71.0	+0.5	94	12	45	5	43										

Daily Precipitation for July, 1922.

Stations.	Drainage Basin.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh	.12	1.65	.12	.39	.35	.02								.28				.64	.40					.07	.01			.03				4.08	
Altoona	Juniata	.17	.90	.06					T.						.10	.12		.21	1.25					.81	.05		.02	.27			.01		3.97	
Ansonia	N. Br. Susq.	.10	.46	.74	.42									.07						.23					.39								2.41	
Arendtsville	Potomac	.02	1.47	.19	.04	.16									.04					.46				T.									2.38	
Austin	W. Br. Susq.																																	
Bellefonte	do.	.65	.40	.21														.58						.68	.15								1.16	
Bethlehem	Lehigh																																	
Bloersville	Lower Susq.	2.19	.66					.84															.18										5.07	
Bustleton	Lower Del.	.39	.31	.11	.27	.70		.90				.46		.14						.03			.22	.06									4.37	
Carlisle	Lower Susq.	.62	1.81	.38	.11	.13			.05			T.	T.		T.					.38									T.	T.			4.32	
Catawissa	N. Br. Susq.	1.13	.25	.31	.04			.15											.12						T.	.03		.09	.28				3.31	
Center Hall	Susquehanna	.15	1.35	.64																.38				.42									3.44	
Chambersburg	Potomac	.01	.86	.05	.05	.05						.12	.01	T.	T.			.83	1.19	.52				.14	.14		.02	T.		.38		T.	3.99	
Clearfield	W. Br. Susq.	1.75	.05	.25				.03					.33		.12				1.01	T.				.68				.05					4.63	
Coatesville	Lower Del.	.20	.78	1.42	.03	.52		.61	.76						.76			.02	.07	.18			.22	.21	.07	T.		T.					5.85	
Colebrook	Lower Susq.	.37	1.54	.23	.04	.15		1.05	.27		T.	.01	T.		T.			T.	.48	.08				.12				T.	.06	T.			4.40	
Cresson	Juniata	1.60	.73	.10				.05					.40	.06				*	1.72						.40								5.29	
Doyelstown	Lower Del.	.59	.25	.52	.05	.59		1.61	.12						.04				.28	.05				.65		.05				.05			4.85	
Driftwood	W. Br. Susq.	.75			.65							.02	T.					.30	1.00					T.	.10		.10		T.				3.12	
Emporium	W. Br. Susq.	.15		.83															.58					T.	.12								1.97	
Ephrata	Lower Susq.	.90	.02	.10	.02	.40		2.15				.07	T.		.18			.02	.48					T.	.05								4.39	
Everett	Juniata																																	
Forest City	N. Br. Susq.	.55	1.78	.07	.03			.73										.03	.51					1.15		.03		.19					5.07	
Freeland	Lehigh	.10	.70	.55	.15	.24		.64				T.						.01	.31	.52					.12	.03	.01	.61	.10				4.09	
George School	Lower Del.	.84	.28	.02	.69	.67		.24	T.			T.								.27			T.	.51	T.	.07	T.						3.59	
Gettysburg	Potomac	.03	1.87	1.07	.05	.18		.14								.08		.78	1.26	.68					.14			.02	.09				6.25	
Girardville	Susquehanna	4.02	.21	.28	.19			.03										.19	.25					.02	.24		.03	.09					5.55	
Gordon	Lower Susq.	1.45	1.28	.56	.03	.16		.28										.11	.11	.21				.03	.07			.50					4.79	
Gouldsboro	Lehigh	2.68	.26	.68	.32							.26		.12										.08										4.49
Graterford	Schuylkill	.27	.13	.64	.28	.12		.50					.05	.19					.11		.03			.44	.28		.03	T.		.14			3.21	
Hamburg	Schuylkill	.40	2.00	.40	.20			.52											.52					.30	.25				.21				4.80	
Hanover	Lower Susq.	.08	1.59	.52	.03	.21		T.						.02	.03			.45	.01	.92					.27								4.13	
Harrisburg	do.	1.07	.68	.30	.07	.04		.07				.16			.01			.16	.20					.20	T.			.14	.47				3.91	
Hawley	Upper Del.	1.77	.68	.19	.03	.14		T.												.27					1.46	.04							4.67	
Holtwood	Lower Susq.		.46	.80	.75	.75		.35				T.	.25						.08	.33					.21				.24				4.22	
Huntingdon	Juniata	1.07	1.27	.03	.04							.36				.12		.04	.34				.06		.12									4.42
Jersey Shore	W. Br. Susq.	1.29	.60	.18														.26	.13									.10	.58				3.14	
Lancaster	Lower Susq.		1.65		.05	.42						.25			.26					.56				.19					.09				3.47	
Lansford	Lehigh	.17		1.52	.07				.08										.01	.32					.01	.02			.02				2.22	
Lawrenceville	N. Br. Susq.	.40	.25	1.00				T.							.10				.22					.20	.10			.20					2.47	
Lebanon	Lower Susq.	.01	1.70	.39	.64	.18		.38				T.						.01	.57						.38	T.		.02					5.29	
Lewisburg	W. Br. Susq.	.39	.59	.04	.01														.03	.93					.13	.13		.02	.07				2.41	
Lloyd	W. Br. Susq.																																	
Lock Haven	W. Br. Susq.																																	
Lykens	Susquehanna	.34	2.49	.51	.03	.05		.11							.01			T.	.50	1.03				.27	.05	T.							5.73	
Marcus Hook	Lower Del.	*	*	.61		.67		.12							.04				.08		.09				.14	T.							1.75	
Mauch Chunk	Lehigh	1.40	1.14	.27	.03			.23											.53						T.	.05							3.65	
Mifflintown	Juniata	.51	2.65	.06	.05													.03	.01	.50					1.22	.17		.13	.20				5.53	
Montrose	N. Br. Susq.	.72	.73	.08															.30					.85	.18	.05							2.91	
Mount Pocono	Upper Del.	1.70	T.	.20	.30	T.		.08											.60	.04					.30	.10	.08		.10				3.50	
Mount Union	Juniata	1.48	.45		T.											.26			.22					.15									2.87	
Muncy Valley	W. Br. Susq.	1.64	.45	.46	.02													T.	1.08					.04	.23			.06					4.63	
Narberth	Lower Del.	.43	.16	.45	.33	.70		.25					.09						.04						.11	T.			.01				2.57	
Neshaminy	Lower Del.		.85	.10	.26	.60	.07		.49				.20							.10	T.					.04	.03	.01					3.46	
Palmerton	Lehigh	.38	.16	.42	.09	.07														.38					T.	.04	T.	T.					1.50	
Philadelphia (a)	Lower Del.	.66	.46	.10	.22	.42		.21							.10				.07					.12		T.		T.			</			

Daily Precipitation for July, 1922.—Continued from page 27.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Derry.....	Conemaugh.....	.04	1.08	.20	.10				T.					.15					.36					1.20	.07							.05	3.25
Ebensburg.....	Conemaugh.....	.03	1.70	.29	.04									.22				.58	1.35	.02				.45	.14								4.82
Edinboro.....	Allegheny.....																																
Elk Lick.....	Youghiogheny.....																																
Falls Creek.....	Allegheny.....	.13	.23	.16															.51					.09			.08					1.05	2.25
Franklin|||.....	Allegheny.....	.04	.27	1.72					.04					.30					1.02	.48				.10			.07						4.04
Freeport|||.....	Allegheny.....		.18	.74					.03					.30					1.40	.40				1.21									4.26
Greensburg.....	Youghiogheny.....	2.06	.17	.01					T.					.07				.04	.73					.28			T.	T.	T.			.04	3.40
Greenville.....	Beaver.....	.05	.69	.94					.06	T.			.20					1.50	.10					.02		.25							3.81
Grove City.....	Beaver.....	.92	.81						.02				.40					.21	2.26					.20	.02	.07	.06						4.97
Herr's Isl. Dam|||.....	Ohio.....		.26	2.21					T.				.31	.01				.62	.03				T.	.06				T.	T.				3.50
Indiana.....	Conemaugh.....		.95	.30					.05									2.44						.34	.32							.07	4.47
Irwin.....	Youghiogheny.....	2.20	.30											.08				.68					.02			.10						.12	3.50
Johnstown.....	Conemaugh.....	.25	.28	.21	.02				T.					.09				.25	1.00					.34	.04	T.			T.	.01		.26	2.75
Ketner.....	Allegheny.....	.09		.78										.06				1.11									.06					1.29	3.39
Linesville|||.....	Beaver.....	.17	.55	.56					.39					.18				.03	1.61								.14					2.25	5.88
Lock No. 4|||.....	Monongahela.....		.08	.44	.04						.02					.25		.73	.06					.17				.03					1.82
Lycippus.....	Conemaugh.....		.70	.28	.10				.04					.40				.97						.24									2.87
New Castle|||.....	Beaver.....		.04	.63										.56				1.13	.83					.48			.33	.03					4.03
Newell.....	Monongahela.....		.26	.54	.03				.22					.36				.31	.01					.40				.06					2.19
North Shenango|||.....	Beaver.....	.34	.45	.46					.18					.07				2.10									.05						3.65
Parkers Landing|||.....	Allegheny.....		.50	.66					.02					.66				.40	.26						.35								2.85
Pennline|||.....	Beaver.....	.33	.38	.57					.55				.23	.35			.03	.03	1.23						.07								3.77
Pittsburgh***.....	Ohio.....	.27	1.29	.13					T.				.38	T.				.09	.48					.03	T.			T.	T.			.13	2.80
Ridgway.....	Allegheny.....			.35														.90															2.67
Saltsburg|||.....	Conemaugh.....		T.	2.19	.19				T.					.04				.24	1.30	.03				.59	.04	T.			.02				4.64
Saegertown.....	Allegheny.....	.55	.17	.60					.52					.69				.06	1.10	.10				.05	.05							.98	4.87
Sharon|||.....	Beaver.....	T.	.35	1.63	.03			.05				.50						1.97						T.	.12								4.65
Somerset.....	Youghiogheny.....	.40	.20	.40	.26									.42				.65	.05					.66			.20					1.40	4.64
Springdale.....	Allegheny.....			4.14	T.				T.					.18				2.20	.03					.86			.13	.04	T.				7.58
Summit|||.....	Beaver.....	1.05		.20										.75				1.00						.25									3.25
Tionesta.....	Allegheny.....		.12	1.18									.47					1.02							.10			.18					3.24
Turnerville|||.....	Beaver.....																																
Uniontown.....	Monongahela.....	.19	.70	.31	.20				.19					1.42					.40	.02				.18	.21			.03	.02				4.87
Unity Reservoir|||.....	Youghiogheny.....		.73	.22										.23				.21	.40					.49					.02				2.30
Vandergrift.....	Conemaugh.....		1.97	.38														1.89							.48							.25	5.11
Warren.....	Allegheny.....	.20							.14					.70			.05	1.12						.04			.15					.15	2.45
Washington.....	Ohio.....	.01	.16	.25									.18	.19				.23	.69					.45				.02				.03	2.21
Waynesburg|||.....	Monongahela.....	.75	.50	.60					.10					3.30				.30						.20				T.				T.	5.75
Westford|||.....	Beaver.....	.30	.38	.57					.19					.19				1.97															3.61
West Newton|||.....	Youghiogheny.....		.28		.05									.02	.12				.70	.12					.75				.01				2.50
Lake Drainage.																																	
Erie***.....	Lake Erie.....	.04	.01	.25				.27	.48		T.	.04	.89					.08	.52					.28			.20					.94	4.00
West Bingham.....	Genesee.....	.35		.45					T.					.14					.01					.04	.12							.34	1.45

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement. T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. †† Post Office address:—Greensburg.

Daily Temperatures for July, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Altoona.....	Maximum...	88	86	71	67	75	80	86	80	83	84	92	94	80	80	79	88	87	79	81	80	82	85	84	82	79	71	82	81	81	81	82	81.6
	Minimum...	65	66	64	56	55	49	52	59	52	55	68	78	66	55	58	55	64	64	59	56	56	61	62	67	58	63	63	64	54	50	56	59.7
Brookville.....	Maximum...	91	83	72	90	77	82	87	81	95	90	94	94	75	82	81	89	90	76	80	82	84	86	81	84	82	77	85	61	82	85	84	83.3
	Minimum...	63	66	56	50	49	42	46	52	47	51	62	62	54	46	51	53	56	49	51	47	52	50	51	60	56	56	59	49	45	41	47	52.2
Catawissa.....	Maximum...	90	90	82	70	79	83	89	85	85	83	85	98	86	87	83	82	92	89	87	84	90	90	89	88	71	77	82	84	86	82	90	85.1
	Minimum...	62	66	67	61	57	55	56	67	56	55	67	72	63	59	61	56	70	67	64	59	52	62	70	66	59	58	63	64	52	50	53	60.9
Chambersburg.....	Maximum...	91	91	85	71	77	82	86	86	85	83	91	94	91	78	80	86	90	85	84	80	85	89	88	90	85	74	82	88	86	84	87	85.0
	Minimum...	69	67	68	64	59	52	56	62	53	59	71	56	70	64	65	60	65	67	65	61	56	62	63	65	62	65	66	63	53	57	53	62.2
Emporium.....	Maximum...	87	84	72	70	74	78	84	78	79	84	90	92	81	79	78	86	88	77	78	79	81	84	79	78	78	76	83	80	82	82	80	80.7
	Minimum...	62	65	58	54	49	46	51	60	52	52	63	64	62	49	51	54	61	65	60	50	53	53	60	64	50	59	64	60	50	45	51	56.0
Erie.....	Maximum...	82	76	72	66	71	76	86	74	80	92	93	91	74	76	82	87	87	80	74	77	81	84	77	73	73	76	82	80	74	82	79	79.3
	Minimum...	71	68	61	58	53	57	67	60	59	68	72	70	63	63	65	68	70	66	63	62	60	69	66	61	62	62	67	63	59	63	63.7	
Grove City.....	Maximum...	87	77	80	68	73	79	84	82	84	91	93	90	86	79	88	89	82	77	79	82	86	83	80	79	78	81	81	77	80	81	82.1	
	Minimum...	70	67	59	54	59	47	54	63	51	64	72	65	64	52	60	62	68	64	55	54	57	55	66	64	65	62	67	61	55	50	55	59.7
Harrisburg.....	Maximum...	91	88	86	68	77	83	86	85	82	84	92	92	85	82	78	83	87	87	83	80	86	91	88	88	74	74	79	85	84	82	86	83.4
	Minimum...	68	68	68	62	60	58	63	70	67	61	68	73	71	68	67	63	70	67	65	62	69	70	72	66	65	72	65	67	60	61	60	65.9
Holtwood.....	Maximum...	92	90	89	71	76	83	84	87	79	81	81	85	89	75	86	82	89	88	84	74	88	90	90	88	72	72	76	87	80	76	84	83.0
	Minimum...	68	67	70	64	58	59	60	67	63	63	67	69	73	65	63	62	69	67	69	68	61	63	69	71	67	62	63	70	65	62	62	65.4
Indiana.....	Maximum...	90	85	71	70	77	81	86	84	86	92	95	97	91	92	85	90	89	86	81	84	84	85	84	83	83	83	83	84	83	85	84	85.0
	Minimum...	71	65	64	56	53	48	53	63	55	59	68	66	64	55	59	60	66	64	56	57	59	58	63	64	61	61	59	60	53	50	57	59.9
Mifflintown.....	Maximum...	93	88	85	70	80	84	87	89	87	81	88	96	87	89	84	87	91	89	87	80	89	94	90	79	82	85	86	87	86	88	86	86.7
	Minimum...	62	68	70	65	59	54	57	60	65	69	70	72	60	67	59	68	68	63	66	65	68	65	66	61	64	65	54	55	64	55	63.2	
Philadelphia.....	Maximum...	90	90	87	74	72	82	85	88	81	82	81	94	93	73	77	82	88	91	84	77	85	87	90	90	72	76	80	87	84	84	85	83.6
	Minimum...	69	71	69	62	58	63	65	68	67	65	66	70	71	67	63	65	70	72	72	71	67	70	73	71	64	64	65	71	68	65	67	67.4
Pittsburgh.....	Maximum...	89	83	73	70	76	80	84	82	87	89	91	93	75	82	83	89	88	77	80	83	85	89	83	81	83	82	83	82	83	83	83	82.9
	Minimum...	69	68	62	57	55	55	63	69	61	70	75	70	66	61	68	68	71	69	62	62	63	62	72	67	66	66	65	68	61	58	63	64.9
Reading.....	Maximum...	91	91	88	71	75	82	85	87	84	82	81	93	90	78	78	82	89	88	85	76	87	87	89	88	74	82	86	82	86	83	82	86.3
	Minimum...	69	69	66	60	58	60	66	69	65	65	66	71	68	67	64	59	71	69	68	67	59	68	72	70	64	64	66	62	59	60	65.3	
Scranton.....	Maximum...	82	82	78	67	76	80	85	82	82	81	84	95	83	81	82	82	89	84	83	80	84	88	83	79	74	73	78	81	79	81	83	81.3
	Minimum...	62	68	61	60	58	56	56	64	56	60	66	71	65	61	61	56	71	68	65	60	56	63	68	66	60	62	62	60	54	49	58	61.4
Somerset.....	Maximum...	85	86	77	65	74	85	80	75	86	90	91	95	84	35	80	87	86	79	80	79	84	85	84	80	81	70	82	80	80	82	82	81.9
	Minimum...	65	64	65	52	52	60	58	60	55	64	60	68	64	63	56	56	60	64	60	64	65	56	60	62	61	62	60	65	52	58	52	60.1
State College.....	Maximum...	78	77	71	66	74	79	84	81	76	80	86	92	83	80	78	79	85	78	80	78	82	85	81	79	76	67	81	77	78	77	78	78.9
	Minimum...	65	64	60	56	53	52	56	65	55	54	68	65	66	54	60	54	64	63	56	55	54	59	62	64	57	61	62	63	53	59	56	59.2
Towanda.....	Maximum...	83	83	72	71	74	79	84	77	77	83	83	94	80	82	80	84	88	80	80	80	84	85	81	77	76	72	80	81	77	82	86	85.5
	Minimum...	59	66	58	59	55	51	54	64	52	52	66	67	66	56	56	53	66	68	62	56	53	60	65	67	59	56	63	59	51	44	55	58.6
Uniontown.....	Maximum...	88	86	73	70	73	78	84	80	82	83	91	93	87	80	81	85	87	85	78	79	82	85	85	80	80	81	83	81	80	77	81	82.1
	Minimum...	73	69	66	57	54	49	54	69	60	61	70	73	65	59	67	64	91	79	69	63	61	59	61	64	70	64	68	67	57	54	56	63.1
Warren.....	Maximum...	86	85	76	73	80	81	86	80	85	90	92	93	78	80	84	89	91	79	81	83	84	88	80	80	83	78	83	82	82	87	84	83.3
	Minimum...	67	65	60	52	49	46	52	60	50	59	67	64	64	53	55	60	63	65	58	60	50	50	65	65	52	55	63	60	50	45	55	57.4
Wellsboro.....	Maximum...	85	83	68	86	74	81	83	73	76	83	85	92	82	78	84	86	79	77	79	78	82	86	78	76	80	79	80	80	80	81	80	80.5
	Minimum...	52	62	55	57	50	45	50	60	48	49	66	68	65	49	49	60	65	65	55	50	49	55	60	62	48	57	60	57	46	40	50	55.0
Williamsport.....	Maximum...	88	85	81	85	78	85	87	87	85	86	85	95	87	85	85	82	90	85	90	86	91	84	83	79	72	81	86	87	87	87	89	85.4
	Minimum...	63	67	61	50	57	53	56	67	56	55	70	70	70	59	59	56	67	67	64	58	55	61	64	66	57	63	64	64	55	51	58	60.7

OCT 27 1922

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXVII.

SEPTEMBER, 1922.

No. 9.

GENERAL SUMMARY.

September this year was drier than any other since 1914, and, with that one exception, was the driest September on record in the State since the Climatological Service was established in 1888. It is seldom that three consecutive months are deficient in rainfall in Pennsylvania during the growing season, but this was the case in July, August and September of this year. For 35 years there has been no other drought so serious in the State except in 1909, when there was a greater deficiency in rainfall in both July and August than this year and continued deficiency in September and October.

The yield of corn was very much reduced by the dry weather; pastures and meadows were widely ruined, so that it was necessary to feed stock at the barns. Springs and streams went dry, and farmers in many places had to haul water from distant sources. Buckwheat, tobacco, potatoes, celery and other truck and vegetable crops were stunted by the drought. Even apples were adversely affected in both yield and quality. Wheat seeding was not accomplished until long after the customary time, many farmers delaying the work for several weeks in the hope of getting rain to put the soil in a more suitable condition.

TEMPERATURE.

The average temperature for the State, as determined from the records of 76 stations was 66.3°, or 3.0° above the normal. Not a single station in the State experienced a deficiency in the monthly mean temperature. The warmest weather occurred from the 6th to 10th, and in practically all parts of the State maximum temperatures of 90° or over were recorded. While the maximum temperatures were quite generally higher than usual in September, the minimum temperatures approached the lowest on record at a good many stations. Injurious frosts occurred extensively on the 26th, when damage was reported even in parts of Chester County. The extremes in temperature for the State were 100° at Clearfield on the 9th and 22° at West Bingham on the 26th.

PRECIPITATION.

The average rainfall for the State, as determined from the records of 122 stations was 1.48 inches, or 1.79 inches less than the normal. Showers occurred extensively during the first four days of the month, but these were mostly light. The only good, general rainfall of the month came in a storm that passed over the State on the 11th and 12th. Fully three-fourths of the month's rainfall occurred within a few hours during the passage of this storm. At most stations there was no rain to do appreciable good after the 12th, and the soil at the close of the month was exceptionally dry.

G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Total move- ment, in miles.	Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.			Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	265.8	374.3	71	72	70	7,962	11.1	33	nw.	1
Harrisburg.....	245.7	373.5	66	79	62	3,272	4.5	19	nw.	24
Philadelphia.....	236.0	373.5	63	76	67	5,787	8.0	26	ne.	24
Pittsburgh.....	321.1	374.0	86	79	55	5,651	7.8	33	nw.	24
Reading.....	185.0	374.0	50	82	69	2,849	4.0	18	nw.	25
Scranton.....				84	68	3,402	4.7	22	nw.	6

* For any five-minute period.

COMPARATIVE DATA FOR SEPTEMBER.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	59.6	.....	.....	4.84	.....	.....	.....	.....	.....
1889.....	61.9	.....	.....	5.05	.....	.....	.....	.....	.....
1890.....	62.2	.....	25	4.57	8.54	2.05	10	9	11
1891.....	66.6	94	32	2.39	5.00	1.05	17	8	5
1892.....	62.4	90	29	2.81	4.85	1.18	16	7	7
1893.....	61.2	90	26	2.67	5.59	0.72	9	12	9
1894.....	66.6	95	24	6.30	12.36	2.82	10	10	10
1895.....	67.8	100	24	1.71	5.41	0.37	16	9	5
1896.....	63.6	98	26	4.82	8.57	1.73	13	8	7
1897.....	63.8	100	24	2.18	4.21	0.25	18	7	5
1898.....	66.0	100	25	1.70	3.95	0.38	16	8	6
1899.....	61.8	93	23	4.70	9.31	2.03	12	9	7
1900.....	68.4	100	27	1.77	6.90	0.48	13	10	7
1901.....	63.6	95	29	3.39	6.61	1.64	14	7	9
1902.....	62.7	99	28	4.66	11.95	1.50	12	8	10
1903.....	63.2	94	27	2.09	3.88	0.91	17	8	5
1904.....	63.7	95	21	3.37	7.40	0.82	13	10	7
1905.....	64.0	95	27	3.41	7.30	1.70	15	9	6
1906.....	67.0	99	30	2.46	6.57	0.36	15	9	6
1907.....	64.8	95	29	6.37	11.86	2.18	8	10	12
1908.....	65.6	99	26	1.60	4.06	0.51	17	9	4
1909.....	62.8	96	26	2.27	4.90	0.64	15	9	6
1910.....	65.5	95	32	4.49	8.45	2.26	13	8	9
1911.....	64.9	92	26	5.29	10.18	1.85	13	9	8
1912.....	65.5	95	25	5.57	11.43	2.47	12	7	11
1913.....	62.4	97	24	3.28	8.43	1.24	13	7	10
1914.....	61.5	98	21	0.99	2.67	0.03	18	7	5
1915.....	66.5	96	25	2.56	6.96	0.45	16	9	5
1916.....	62.5	98	23	3.77	8.18	0.91	17	8	5
1917.....	59.0	91	25	2.31	6.34	0.00	16	9	5
1918.....	58.7	88	28	3.97	7.52	1.82	12	8	10
1919.....	64.4	96	28	2.07	4.09	0.46	16	8	6
1920.....	64.5	91	24	3.99	9.40	0.97	16	8	6
1921.....	68.9	98	31	4.68	11.48	1.47	13	9	8
1922.....	66.3	100	22	1.48	3.73	0.17	19	7	4

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	2.2	2.7	6	1.6	27	18
Phillipsburg.....	Delaware.....	1.2	2.0	5	0.2	30	22
Mauch Chunk.....	Lehigh.....	3.9	4.4	13	3.0	1	15
Wilkes-Barre.....	Susquehanna.....	3.7	5.7	14	2.5	30	20
Williamsport.....	Susquehanna.....	0.3	1.4	13	0.0	29	20
Harrisburg.....	Susquehanna.....	3.6	4.0	1	3.2	27	17
Freepport.....	Allegheny.....	1.5	2.0	1	0.7	30	22
West Newton.....	Youghiogheny.....	0.0	0.1	1	-0.8	30	20
Lock No. 4.....	Monongahela.....	13.2	18.3	3	12.4	28	20
Pittsburgh.....	Ohio.....	7.0	8.6	3	6.5	29	22
Beaver Dam.....	Ohio.....	8.0	8.7	6	7.4	4	30

Climatological Data for September, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Allentown	Lehigh	254	10	67.1	+4.4	93	9	36	25	1.87	0.68	0	5	19	4	7	w.	John A. Frick.		
Altoona	Blair	1,615	35	67.1	+4.4	93	9	33	26	1.41	-1.37	1.41	0	1	24	6	0	w.	Lewis E. Biller.	
Arendtsville	Adams	700	3	67.8 ^a		96 ^a	6	35 ^a	26	1.34	1.21	0	3	16	6	8	n.	R. C. Walton.		
Bethlehem	Northampton	205	34	67.9		91	6	36	26	1.96	-1.43	1.72	0	2	8	19	3	e.	E. E. McCollm.	
Bustleton	Philadelphia	125	3	67.9		91	6	36	26	2.07	1.17	0	3	16	8	6	n.	Experiment Station.		
Carlisle	Cumberland	467	55	69.7	+5.0	98	6	36	26	1.11	-2.51	0.96	0	2	22	3	5	se.	Prof. C. E. Miller.	
Catawissa	Columbia	520	25	67.0	+3.5	94	6	30	26	1.09	-2.31	0.65	0	3	22	4	1	.....	H. H. Yetter.
Center Hall	Center	1,272	26	65.6	+3.6	93	7	32	26	0.58	-2.41	0.34	0	4	25	4	1	.....	S. W. Smith.
Chambersburg	Franklin	631	22	67.6	+1.7	93	6	34	26	1.08	-1.66	1.00	0	2	18	7	5	sw.	William B. Spear.	
Clearfield	Clearfield	1,120	12	67.2	+4.0	100	9	31	26	0.45	-3.33	0.25	0	5	25	3	2	sw.	E. W. Hess.	
Coatesville	Chester	380	34	66.7	+0.6	92	6	30	26	0.75	-3.15	0.63	0	5	14	14	2	se.	Prof. W. T. Gordon.	
Colebrook	Lebanon	560	12	66.4		96	6	32	26	0.61	-2.81	0.47	0	6	20	4	6	sw.	Wm. A. Rorer.	
Emporium	Cameron	1,050	34	62.7	+1.3	88	6 [†]	30	26	1.81	-2.63	1.20	0	3	21	4	5	w.	T. B. Lloyd.	
Ephrata	Lancaster	380	21	67.5	+2.0	92	6	36	26	0.90	-2.58	0.54	0	3	17	10	3	s.	E. K. Hershey.	
Everett	Bedford	1,080	24	64.6 ^a	+1.8	90 ^a	6 [†]	32 ^a	26	1.00	-1.90	0.94	0	2	21	7	2	w.	J. E. Thropp Co.	
Freeland	Luzerne	1,970	7	61.2		82	6	32	26	2.59	.....	0.83	0	7	16	11	3	sw.	Theo. Reichmann.
George School	Bucks	190	15	67.2	+2.3	91	6	34	26	1.19	-1.05	0.96	0	6	21	2	7	se.	Prof. N. W. Swayne.	
Gettysburg	Adams	600	48	68.7	+3.7	97	6	35	26	1.35	-2.02	0.95	0	6	16	9	5	se.	Col. E. B. Coppe.	
Gordon	Schuylkill	840	18	64.4	+2.6	92	6	28	25	1.08	-3.38	0.96	0	3	18	8	4	se.	Capt. J. G. Johnson.	
Hamburg	Berks	380	29	65.5	0.0	92	6	32	26	1.70	-2.50	1.10	0	2	21	3	6	w.	State Sanatorium.	
Hanover	York	600	18	69.2 ^b	+2.0	94	6	37 ^b	26	0.42	-2.43	0.12	0	5	18	7	5	s.	Mrs. Mabel C. Wolcott.	
Harrisburg	Dauphin	361	52	68.9	+4.0	95	6	41	26	0.85	-2.00	0.82	0	3	16	8	6	s.	U. S. Weather Bureau.	
Hawley	Wayne	440	3	62.9		92	6	29	26	1.08	.....	0.83	0	2	.....	.....	.....	.....	J. S. Pennell.
Huntingdon	Huntingdon	650	34	67.2	+2.9	97	6	32	26	1.81	-1.41	1.55	0	3	24	2	4	.....	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	2	67.4		96	6	33	26	1.95	.....	1.60	0	4	27	0	3	.....	C. B. McCullough.
Lancaster	Lancaster	255	34	66.7	+2.2	98	6	27	26	0.42	-2.92	0.42	0	1	22	7	1	se.	Supt. of Water Works.	
Lawrenceville	Tioga	1,000	24	64.3	+3.0	91	6	29	26	1.45	-1.08	1.10	0	5	19	6	5	.....	C. P. Darling.
Lebanon	Lebanon	469	81	67.8	+2.6	96	7	34	26	1.60	-1.58	0.91	0	4	16	12	2	sw.	S. B. Benzing.	
Lewisburg	Union	450	47	67.6	+5.6	96	6	33	26	1.83	-1.70	1.53	0	5	16	7	7	w.	Prof. W. G. Owens.	
Lykens	Dauphin	680	7	66.2		97	6	29	26	1.29	.....	1.20	0	2	21	7	2	nw.	Susquehanna Collieries Co.
Marcus Hook	Delaware	50	2	69.4		96	6	43	26	1.05	.....	0.80	0	4	13	16	1	sw.	Gen. Chemical Co.
Mauch Chunk	Carbon	600	32	66.0	+2.0	94	6	32	26	1.45	-2.42	1.10	0	3	18	5	7	w.	R. K. Wintermute.	
Mifflintown	Juniata	445	18	68.9	+5.1	98	6	33	26	1.77	-2.02	1.76	0	3	20	4	6	w.	Wellington Smith.	
Montrose	Susquehanna	1,658	19	65.4	+5.3	88	6	42	25	1.90	-2.02	1.50	0	3	19	6	5	s.	Silas Jager.	
Mount Pocono	Mourne	1,720	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	10	63.4		90	6	30	26	4.73	+0.25	3.02	0	3	17	8	5	sw.	A. H. Boatman.	
Narberth	Montgomery	300	3	68.0		93	6	37	26	0.72	.....	0.54	0	4	16	4	10	ne.	Charles Decker.
Neshaminy Falls	Bucks	60	33	66.4		93	6	33	26	1.41	.....	1.00	0	5	18	3	9	n.	North Springfield Water Co.
Palmerton	Carbon	398	5	65.7		95	6	31	26	0.71	.....	0.68	0	3	20	6	4	ne.	F. G. Breyer.
Philadelphia (a)	Philadelphia	117	51	69.7	+2.3	93	6	47	26	1.23	-2.15	0.69	0	4	12	4	14	sw.	U. S. Weather Bureau.	
Philadelphia (d)	Philadelphia	12	6	69.7		93	6	45	26	3.13	.....	1.50	0	5	.....	.....	.....	.....	Commandant Navy Yard.
Phoenixville	Chester	100	11	67.8		95	6	35	26	0.88	.....	0.41	0	5	21	9	0	s.	North Springfield Water Co.
Quakertown	Bucks	496	37	65.8	+2.2	92	6	29	26	1.83	-1.83	1.29	0	3	17	7	6	ne.	John E. Benner.	
Reading	Berks	325	52	68.1	+1.8	94	6	40	26	1.16	-2.49	0.86	0	3	13	11	6	se.	U. S. Weather Bureau.	
Scranton	Lackawanna	455	27	65.6	+3.4	93	6	34	26	1.18	-1.68	0.83	0	3	14	8	8	n.	U. S. Weather Bureau.	
Selinsgrove	Snyder	455	32	67.4	+3.0	94	6	32	27	2.58	-1.08	2.03	0	3	16	10	4	sw.	Prof. Thomas C. Houtz.	
Shawmont	Philadelphia	51	26	69.2		91	6 [†]	40	26	1.81	-2.39	0.47	0	3	.....	.....	.....	.....	W. S. Guiles.
State College	Center	1,217	37	64.2	+1.8	91	6	31	26	1.91	-1.15	0.91	0	5	17	9	4	sw.	C. A. Kern.	
Towanda	Bradford	754	27	64.5	+2.5	91	6	31	26	2.48	-0.55	1.84	0	4	17	7	6	s.	Hiram E. Bull. C. E.	
Wellsboro	Tioga	1,419	56	62.5	+2.8	90	6	26	26	4.5	-1.10	1.44	0	4	24	4	2	sw.	George W. Hill.	
West Chester	Chester	455	84	67.0	+1.7	89	6	38	26	0.80	-3.12	0.63	0	4	19	6	5	sw.	Arthur M. Hay.	
Williamsport	Lycoming	521	35	67.6	+3.7	95	7	35	26	1.9	-0.73	1.00	0	5	22	7	1	ne.	Jacob April.	
York	York	400	34	68.8	+3.2	97	6	31	26	0.60	-2.73	0.30	0	2	21	8	1	n.	York Water Co.	
Ohio Drainage.																				
Beaver Dam	Beaver	700	29	68.9		95	8	37	26	4.5	3.63	+1.04	2.37	0	3	17	9	4	sw.	U. S. Engineer.
Bradford	McKean	1,427	7	61.5 [†]		92 [†]	8	26 [†]	26	1.15	.....	0.49	0	6	16	8	6	sw.	City Engineer.
Bradys Bend	Armstrong	930	4	63.7		94	8	26	26	1.29	.....	0.88	0	5	25	3	2	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	31	62.4 ^a	+2.7	93 ^a	5 [†]	27 ^a	26	51 ^a	0.58	-2.74	0.58	0	1	.....	.....	.....	John Fawcett.
Claysville	Washington	1,150	18	2.81	+0.01	1.38	0	5	24	1	5	w.	J. L. Melvin.
Corry	Erie	1,400	10	61.4		92	6	27	26	1.40	.....	0.86	0	4	19	6	5	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	25	65.8	+0.4	93	6	32	26	1.19	-1.62	0.83	0	3	25	4	1	sw.	Miss N. Dixie Wineman.	
Ebensburg	Cambria	2,000	4	61.8		90	8	24	26	4.8	0.92	0.92	0	1	28	2	0	e	D. H. Jones.
Elk Lick	Somerset	2,700	5	.....		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. S. Stevanus.
Franklin	Venango	1,000	49	65.4	+3.1	94	6	31	26	4.6	-1.32	1.05	0	4	25	0	5	w.	F. E. Dixon.	
Greensburg	Westmoreland	1,150	14	68.0	+3.8	93	8 [†]	36	26	4.3	-1.73	0.75	0	5	21	7	2	s.	Westmoreland Water Co.	
Greenville	Mercer	950	27	65.8	+4.0	95	6 [†]	29	26	5.3	-1.46	0.84	0	5	.....	.....	.....	.....	J. R. Marks.
Grove City	Mercer	1,256	15	65.4	+3.1	93	8	32	26	4.3	-1.03	0.97	0	5	22	2	6	nw.	Prof. H. W. Harmon.	
Indiana	Indiana	1,350	25	67.9	+3.8	95	8	35	26	4.5	-									

Daily Precipitation for September, 1922.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown	Lehigh	.47			.68	.54							.11	.07																		1.87	
Altoona	Juniata											1.41																				1.41	
Ansonia	N. Br. Susq.	1.04		.63		T.							.93																			2.60	
Arendtsville	Potomac		.11						.02				1.21																			1.34	
Austin	W. Br. Susq.												1.33																			1.33	
Bellefonte	do.												.24																			1.96	
Bethlehem	Lehigh				1.72																											0.93	
Blossville	Lower Susq.												.93																			2.07	
Bustleton	Lower Del.			1.17									.83														.07					1.11	
Carlisle	Lower Susq.					.15							.96																			1.09	
Catawissa	N. Br. Susq.	T.			.44								.63	.02																		0.58	
Center Hall	Susquehanna		.04	.02									.18	.34																		1.08	
Chambersburg	Potomac		.08										T.	1.00																		0.45	
Clearfield	W. Br. Susq.		.05	.03									.25	.10								.02										0.75	
Coatesville	Lower Del.	.02			.05								.11	.52												.05						0.61	
Colebrook	Lower Susq.		.01	T.	.03					.01			.08	.47																		1.11	
Cresson	Juniata			.15					.03				.87									.06										0.92	
Doylstown	Lower Del.				.64								.15	.13																		1.62	
Driftwood	W. Br. Susq.	.15	.20		.35								.92																			1.81	
Emporium	W. Br. Susq.	T.		.36	.25		T.					1.20																				0.90	
Ephrata	Lower Susq.		T.		.18				.18				.54																			1.00	
Everett	Juniata		.06										.94																			0.90	
Forest City	N. Br. Susq.				.26		.16						.48																			2.59	
Freeland	Lehigh	.70		.02	.34	.68				.02			.80	.03																		1.97	
George School	Lower Del.	.04			.96	.01		.04		.01			.91	T.		T.																1.35	
Gettysburg	Potomac		.29	.02	.01				.03	.05			.95																			1.70	
Girardville	Susquehanna				.73								.07	.88																		1.08	
Gordon	Lower Susq.				.03								.96																			2.11	
Gouldsboro	Lehigh	.38					.28		.06				1.12																			1.00	
Graterford	Schuylkill	.08			.53								.28																			1.70	
Hamburg	Schuylkill				1.10								.60																			0.42	
Hanover	Lower Susq.	.12	.12		.07				.01				.10																			0.85	
Harrisburg	do.	T.	.03						T.				.80	.02																		1.08	
Hawley	Upper Del.					.25							.83																			0.53	
Holtwood	Lower Susq.	.03											.50																			1.81	
Huntingdon	Juniata			.04								1.55	.22																			1.95	
Jersey Shore	W. Br. Susq.		.24	.01	.10	T.			T.				1.60																			0.42	
Lancaster	Lower Susq.												.42																			1.29	
Lansford	Lehigh		.16		.27				.01				.90																			1.95	
Lawrenceville	N. Br. Susq.		.35	T.	.25		T.						1.10		.15																	1.60	
Lebanon	Lower Susq.	.56	T.			.13							.90	.01																		1.83	
Lewisburg	W. Br. Susq.	.01	.08		.20								T.	1.53	.01																	1.99	
Lloyd	W. Br. Susq.	.25		.48					.02				1.24																			1.29	
Lock Haven	W. Br. Susq.												1.20																			1.05	
Lykens	Susquehanna		.09	T.	T.								.08	.72																		1.45	
Marcus Hook	Lower Del.				.20								.72																			1.77	
Mauch Chunk	Lehigh				.32								1.10																			1.90	
Millintown	Juniata	.01											1.40	.36																		1.02	
Montrose	N. Br. Susq.		.22	.18		T.							1.50																			3.73	
Mount Pocono	Upper Del.												.99																			0.72	
Mount Union	Juniata	.03	T.	T.					T.				3.02																			1.98	
Muncy Valley	W. Br. Susq.		T.	.66	.05								.05	.49																		0.71	
Narberth	Lower Del.				.09								.10	.36																		1.23	
Neshaminy	Lower Del.	.48				1.00							.10																			3.13	
Palmerton	Lehigh				T.	.03							.58																			0.88	
Philadelphia (a)	Lower Del.				.49								.02	.67																		1.19	
Philadelphia (d)	do.	.74				1.50							.29	.50																		1.20	
Phoenixville	Schuylkill	.12	T.		.41	.10							.04	.21																		1.83	
Pottstown	do.	.07			.55				T.				.67																			1.16	
Portville	do.			.30						T.			.90																			1.58	
Quakertown	Lower Del.		T.		1.29								.45																			1.13	
Reading	Schuylkill		T.		.86								.04	.26																		2.11	
Renovo	W. Br. Susq.		.02		.12	.15							1.29																			1.31	
Sadsburyville	Lower Del.																																

Daily Precipitation for September, 1922. - Continued from page 35.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Derry.....	Conemaugh.....		.26		.10							.83																					1.19
Ebensburg.....	Conemaugh.....											.92																					0.92
Edinboro.....	Allegheny.....																																
Elk Lick.....	Youghiogheny.....																																
Falls Creek.....	Allegheny.....		.08	.05	.10			.38				.83																					1.46
Franklin|||.....	Allegheny.....		.66	.11	1.05							.35									.02												2.17
Freeport|||.....	Allegheny.....		.36		T.							1.34																					1.70
Greensburg.....	Youghiogheny.....	*	.51	.11	.10							.75																					1.47
Greenville.....	Beaver.....		.64	.08	.19			.01				.84																					1.76
Grove City.....	Beaver.....	.05	.45	.12	.97							.46																					2.05
Herrs Isl. Dam|||.....	Ohio.....		.84		.01								.67																				1.52
Indiana.....	Conemaugh.....			.05								.30	.27																				0.62
Irwin.....	Youghiogheny.....	.30		.20																	T.												0.50
Johnstown.....	Conemaugh.....		.05	T.	.01							1.10	.07												T.								1.23
Ketner.....	Allegheny.....	.04	.04		.42							.33	.11																				0.94
Linesville|||.....	Beaver.....	.47	.49	.09								.77																					1.82
Lock No. 4|||.....	Monongahela.....		.78	.02									.85																				1.65
Lycippus.....	Conemaugh.....		.50		.09							1.13																					1.72
New Castle|||.....	Beaver.....		1.56	.35	.19							.51																					2.61
Newell.....	Monongahela.....	.72	.16	.23								.75	.01																				1.87
North Shenango|||.....	Beaver.....		.56	.35								.07	.75																				1.73
Parkers Landing|||.....	Allegheny.....		.12	T.	.12							.20																					0.44
Pennline|||.....	Beaver.....		.71	.16								.34	.95																				2.16
Pittsburgh***.....	Ohio.....	.70	.09	T.								.75													T.								1.54
Ridgway.....	Allegheny.....			.09	1.02							.94																					2.05
Saltsburg|||.....	Conemaugh.....		.26		.03	T.						.83																					1.12
Saegertown.....	Allegheny.....	.05	.45	.07								.80	.06																				1.43
Sharon|||.....	Beaver.....		.42		.08							T.	.52																				1.02
Somerset.....	Youghiogheny.....		.52									.54	.33																				1.39
Springdale.....	Allegheny.....		.60	.07	.07							1.01																					1.75
Summit|||.....	Beaver.....			.58								.24	.30																				1.12
Tionesta.....	Allegheny.....			.15	.77							1.42																					2.34
Turnerville|||.....	Beaver.....																																
Uniontown.....	Monongahela.....		.72	.20	.50							1.00	.28																				2.70
Unity Reservoir|||.....	Youghiogheny.....		.47	.03								.24	.32																				1.06
Vandergrift.....	Conemaugh.....		.33									.60	.15																				1.08
Warren.....	Allegheny.....	.10		.98				.11				1.05		.06							.02												2.32
Washington.....	Ohio.....	.67	.04	.11	T.							1.35																					2.17
Waynesburg|||.....	Monongahela.....	1.16	.19									1.11																					2.46
Westford|||.....	Beaver.....	.50	.30		.05							.92																					1.72
West Newton|||.....	Youghiogheny.....		.58		T.								.89																				1.47
Lake Drainage.																																	
Erie***.....	Lake Erie.....	.10		.08			T.	.44				1.03		.03	.04	T.					T.	T.											1.72
West Bingham.....	Genesee.....		T.	T.								1.32	.05	T.																			1.37

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Post Office address: Greensburg.

Daily Temperatures for September, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Allentown.....	Maximum.....	61	69	69	59	62	63	63	65	66	69	67	51	56	57	63	49	46	46	49	51	50	50	53	51	36	40	43	49	50	49	...	55.1
	Minimum.....	75	77	80	86	90	92	91	89	93	89	84	71	78	85	88	76	70	69	68	80	78	83	82	83	66	69	78	82	79	80	...	80.4
Altoona.....	Maximum.....	53	65	66	66	58	61	68	66	64	60	66	58	46	59	57	50	43	42	50	59	56	48	51	54	38	33	40	42	44	50	...	53.8
	Minimum.....	81	78	79	84	90	94	90	88	85	85	73	80	87	92	83	72	76	69	81	84	84	88	83	73	71	78	82	82	86	...	81.9	
Catawissa.....	Maximum.....	52	58	65	64	60	56	62	65	65	67	65	62	44	55	62	53	43	37	52	56	50	44	47	47	45	30	35	36	43	46	...	52.2
	Minimum.....	74	74	80	88	91	93	91	85	87	84	86	77	80	85	89	83	72	71	72	79	77	84	86	89	77	70	80	83	78	83	...	81.6
Chambersburg.....	Maximum.....	58	64	64	64	62	56	66	66	70	65	67	64	46	52	56	61	45	44	50	48	53	45	47	47	45	34	37	40	45	47	...	53.6
	Minimum.....	76	72	74	84	84	88	84	86	88	85	83	69	75	79	83	69	64	65	67	72	74	79	78	66	61	66	62	75	78	80	...	75.5
Emporium.....	Maximum.....	51	64	68	66	57	60	63	64	68	57	63	48	43	56	54	48	42	33	44	53	45	45	47	50	33	30	30	35	41	40	...	49.9
	Minimum.....	73	86	84	78	83	87	78	91	90	91	75	67	76	77	64	67	60	70	68	66	70	73	80	73	56	62	66	73	74	77	...	74.5
Erie.....	Maximum.....	60	69	70	66	62	69	67	71	72	72	58	56	55	59	59	56	50	46	59	58	53	55	58	54	47	40	45	50	55	57	...	58.3
	Minimum.....	71	82	78	83	82	91	91	93	92	90	76	69	78	84	82	72	65	70	76	68	79	84	83	76	74	71	76	78	80	84	...	79.4
Grove City.....	Maximum.....	50	66	68	66	54	58	65	61	63	60	61	51	47	55	59	46	41	43	55	55	52	46	47	60	37	32	37	35	42	44	...	51.5
	Minimum.....	73	76	79	86	90	95	87	76	86	85	84	73	78	85	88	75	70	68	69	74	78	80	82	86	66	66	78	78	74	81	...	78.9
Harrisburg.....	Maximum.....	59	67	69	70	66	64	69	65	68	70	66	64	55	60	66	60	54	49	53	54	59	53	55	56	51	41	45	48	59	53	...	58.9
	Minimum.....	78	79	84	87	92	97	83	74	80	84	82	77	82	88	87	80	75	73	80	73	80	82	88	91	72	70	82	82	74	83	...	81.3
Holtwood.....	Maximum.....	62	62	67	69	68	63	69	66	67	65	66	66	54	56	61	60	56	48	49	49	56	54	53	51	40	42	46	54	53	...	57.5	
	Minimum.....	79	83	82	89	90	94	93	95	94	91	89	73	79	86	87	77	71	74	76	82	83	83	85	83	69	77	79	83	87	85	...	83.3
Indiana.....	Maximum.....	51	64	66	57	57	56	64	63	63	62	64	56	44	54	54	55	44	42	51	52	55	46	48	55	41	35	40	38	45	49	...	52.5
	Minimum.....	74	72	84	90	93	98	93	84	93	86	86	76	79	89	92	79	76	75	68	84	83	88	87	89	74	73	81	83	83	85	...	83.2
Mifflintown.....	Maximum.....	57	64	66	68	63	59	64	66	68	66	67	63	52	54	57	59	46	40	50	50	55	47	48	48	56	33	37	38	46	52	...	54.6
	Minimum.....	80	80	83	82	88	93	79	76	79	82	81	77	78	85	86	79	72	67	70	71	73	75	82	87	68	65	76	76	80	...	78.2	
Philadelphia.....	Maximum.....	62	66	68	70	68	70	66	64	67	69	69	63	58	63	66	65	58	52	54	57	61	57	59	62	53	47	51	57	57	57	...	61.2
	Minimum.....	82	84	84	84	90	92	91	91	91	90	80	71	77	84	86	73	70	72	78	73	80	82	81	80	65	72	76	79	79	84	...	80.8
Pittsburgh.....	Maximum.....	58	68	70	69	62	66	70	68	71	70	61	57	55	64	62	55	49	48	58	61	60	55	56	55	47	44	47	45	48	52	...	58.4
	Minimum.....	77	79	83	82	88	94	77	72	88	85	82	73	78	86	87	77	71	68	70	73	76	79	85	87	67	67	77	79	71	81	...	78.4
Reading.....	Maximum.....	58	66	67	69	63	64	64	66	70	68	59	54	60	69	60	53	48	48	51	53	57	52	54	55	51	40	45	48	54	53	...	57.8
	Minimum.....	82	76	75	81	85	93	77	74	85	85	81	69	74	80	86	71	64	67	66	73	76	81	81	83	59	66	75	76	81	84	...	76.5
Scranton.....	Maximum.....	54	64	66	67	58	60	63	63	68	68	66	53	47	58	63	54	47	40	50	56	51	49	52	52	42	34	39	43	49	50	...	54.2
	Minimum.....	82	80	78	80	85	90	98	94	93	92	90	86	77	85	85	75	68	68	73	82	80	81	82	81	68	75	70	72	82	84	...	81.2
Somerset.....	Maximum.....	50	62	65	62	50	55	60	60	61	58	60	55	44	51	52	51	41	38	52	49	51	41	36	52	31	38	35	38	40	46	...	49.5
	Minimum.....	74	69	82	84	85	91	88	83	87	79	81	70	73	81	85	74	64	64	75	74	80	80	77	63	65	72	74	79	77	...	76.5	
State College.....	Maximum.....	52	61	65	65	52	60	63	65	67	64	65	51	45	55	59	54	45	38	51	53	49	44	49	51	41	31	38	39	43	46	...	52.0
	Minimum.....	78	74	78	82	85	91	78	83	88	83	80	78	76	78	86	71	65	65	66	70	75	82	82	82	60	66	73	76	81	84	...	77.2
Towanda.....	Maximum.....	52	64	66	65	54	57	62	59	68	63	66	58	46	56	58	53	47	38	44	57	50	45	49	48	43	31	36	36	41	46	...	51.8
	Minimum.....	83	81	81	81	84	88	88	90	88	87	84	70	77	83	85	80	68	74	78	80	80	82	81	83	69	75	77	84	83	...	80.8	
Uniontown.....	Maximum.....	58	65	69	64	58	60	65	63	65	62	65	59	49	56	58	58	47	52	58	53	54	48	50	58	47	43	46	43	43	50	...	55.5
	Minimum.....	74	82	78	85	90	90	82	93	92	90	83	71	77	80	76	73	66	71	70	75	75	82	83	86	75	62	70	75	79	85	...	79.3
Warren.....	Maximum.....	51	63	67	65	57	59	64	61	64	56	64	50	44	55	54	51	48	37	52	55	45	45	47	49	35	32	34	38	44	43	...	51.0
	Minimum.....	77	70	75	80	84	90	83	84	88	83	85	70	73	80	83	70	60	66	63	70	75	82	82	75	55	67	75	75	80	83	...	76.1
Wellsboro.....	Maximum.....	51	51	65	63	55	57	73	64	65	60	62	59	40	55	54	52	40	32	40	54	44	40	42	43	41	26	30	31	39	40	...	48.9
	Minimum.....	77	73	79	84	88	94	95	83	87	83	83	82	76	85	90	88	73	68	67	75	79	84	85	83	75	66	78	78	80	85	...	80.8
Williamsport.....	Maximum.....	54	66	67	63	60	61	66	66	68	68	70	63	48	58	56	55	47	40	51	55	50	49	50	51	45	35	38	40	45	46	...	54.5

UNIVERSITY OF ... LIBRARY
NOV 24 1922

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXVII.

OCTOBER, 1922.

No. 10.

GENERAL SUMMARY.

As in 1921, October was again a very pleasant month and favorable for outdoor pursuits. The weather was remarkably warm for the time of year during the greater part of the month, especially during the first ten days. At Philadelphia the temperature rose to 91° on the 5th, which exceeded all previous records for October. Maximum temperatures of 94° were recorded at three stations; this was the highest temperature recorded in the State in any October since 1900.

The drought conditions that had become so serious in September continued unrelieved until about the 7th of October, when a rainy period set in covering all the State with generous precipitation except in the counties of Chester, Delaware, Philadelphia, Montgomery, and Bucks. Although rainy weather continued during the four days, 7th to 10th inclusive, these five counties received during the period less than half an inch of rain, while three or four times as much occurred over most other parts of the State. After the 10th no part of the State had much rain, there being only two storms worthy of note, one on the 17th and the other on the 23d and 24th. But these were far from sufficient to furnish a normal rainfall for the latter half of the month, so that in many places, even in the central and western parts of the State, the water supply was again scanty at the close of the month.

TEMPERATURE.

The average temperature for the State, as determined from the records of 71 stations was 54.8°, which was 2.5° above the October normal. The highest monthly mean was 60.6° at Philadelphia, and the lowest was 48.1° at West Bingham. The highest temperature recorded was 94° at Beaver Dam and York on the 5th, and at Gettysburg on the 5th and 6th. The lowest temperature was 12° at Wellsboro on the 21st. Although injurious frosts occurred in many places as early as September 26, they were delayed in many other localities until the middle of October or later.

PRECIPITATION.

The average rainfall for the State, as determined from the records of 126 stations was 2.51 inches, which is 0.80 inch less than the October normal. The greatest amount for the month was 5.60 inches at Selinsgrove, and the least was 0.65 inch at Neshaminy Falls. Traces of snow were recorded at a few stations, but there were no instances of snow of measurable amount. The earliest snowfall was at West Bingham on the 18th.

Slight amounts of hail were reported in connection with thunderstorms on the 23 at Saegertown and Summit, and on the 26th at Johnstown, Ketner and Saegerstown. At Newell a barn was struck by lightning and burned on the 23d. G. W.M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Total move- ment, in miles.	Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.			Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	187.4	343.1	55	70	66	10,547	14.2	38	sw.	25
Harrisburg.....	245.7	345.2	71	72	60	4,324	5.8	28	sw.	23
Philadelphia.....	265.2	345.2	77	70	59	7,246	9.7	29	sw.	11
Pittsburgh.....	233.5	344.1	68	78	59	7,055	9.5	36	sw.	11
Reading.....	229.0	345.2	65	72	64	3,897	5.2	24	nw.	12
Scranton.....	.....	.....	80	82	63	5,191	7.0	27	sw.	18

* For any five-minute period.

COMPARATIVE DATA FOR OCTOBER.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	46.3	74	19	4.02	9.18	2.04	9	6	16
1889.....	47.3	83	13	3.85	8.61	1.88	8	9	14
1890.....	50.9	81	21	5.87	8.41	4.03	6	8	17
1891.....	50.6	91	15	3.06	4.46	0.84	11	9	11
1892.....	50.8	83	16	0.72	2.93	0.00	13	11	7
1893.....	53.0	91	17	3.26	6.58	1.18	14	8	9
1894.....	53.6	88	24	4.26	7.66	0.65	12	8	11
1895.....	47.3	76	17	1.99	4.63	0.45	17	8	6
1896.....	48.9	86	18	3.19	5.70	0.94	11	8	12
1897.....	54.2	95	16	1.32	5.93	T.	14	8	9
1898.....	53.8	92	20	5.20	8.62	2.36	11	7	13
1899.....	54.6	94	15	1.55	3.81	0.53	13	8	10
1900.....	58.6	95	19	2.74	5.10	0.80	11	9	11
1901.....	52.2	83	20	1.23	3.35	0.23	16	10	5
1902.....	53.1	89	19	4.64	8.12	1.65	12	9	10
1903.....	53.4	91	20	4.64	10.53	2.07	12	8	11
1904.....	50.6	91	12	2.87	7.11	1.26	15	8	8
1905.....	53.2	90	16	4.23	7.06	2.18	14	7	10
1906.....	52.0	87	14	4.46	8.39	1.97	7	7	17
1907.....	48.2	87	13	3.16	5.64	1.01	16	8	7
1908.....	54.6	93	19	1.95	5.48	0.08	16	7	8
1909.....	48.4	87	15	2.27	4.60	0.70	13	7	11
1910.....	55.6	91	14	1.91	5.23	0.62	16	8	7
1911.....	52.3	83	18	4.83	9.23	2.59	11	7	13
1912.....	54.2	90	23	2.74	5.27	0.90	15	7	9
1913.....	54.9	88	16	5.44	9.62	3.15	10	6	15
1914.....	56.4	91	11	2.35	4.37	0.89	11	9	11
1915.....	54.2	85	17	2.65	5.33	1.00	15	7	9
1916.....	52.1	92	16	2.25	4.45	0.76	18	7	6
1917.....	47.2	84	12	6.38	9.80	3.33	10	10	11
1918.....	55.5	85	19	3.17	2.20	0.24	15	8	8
1919.....	57.5	92	21	4.77	8.04	2.28	9	8	14
1920.....	57.5	88	22	1.67	4.67	0.50	19	7	5
1921.....	52.6	84	3	2.16	6.55	0.40	17	7	7
1922.....	54.0	94	12	2.51	5.60	0.65	12	6	7

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	1.9	3.0	12	1.4	5	18
Phillipsburg.....	Delaware.....	0.7	2.3	12	0.0	4	22
Mauch Chunk.....	Lehigh.....	4.3	5.1	11	4.0	3	15
Wilkes-Barre.....	Susquehanna.....	2.5	3.1	14	2.2	6	20
Williamsport.....	Susquehanna.....	0.3	1.1	12	0.1	23	20
Harrisburg.....	Susquehanna.....	3.3	3.5	12	3.1	4	17
Freeport.....	Allegheny.....	1.4	2.1	13	0.3	4	22
West Newton.....	Youghiogheny.....	0.0	0.2	11	-0.3	1	20
Lock No. 4.....	Monongahela.....	12.4	12.5	19	12.3	1	20
Pittsburgh.....	Ohio.....	6.7	7.4	15	6.3	22	22
Beaver Dam.....	Ohio.....	8.0	8.5	15	7.2	30	30

Climatological Data for October, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.			Prevailing direction of wind.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.			Pt. cloudy.	Cloudy.
Atlantic Drainage.																				
Allentown	Lehigh	254	10					28	20	1.47	-1.94	0.74	0	6	20	6	5	w.	John A. Frick.	
Altoona	Blair	1,615	35	54.8	+2.9	86	5	25	31	2.60	+0.11	1.32	0	8	20	6	5	w.	Lewis E. Biller.	
Arendtsville	Adams	700	3						26	21		1.02	0	6	23	2	6	nw.	R. C. Walton.	
Bethlehem	Northampton	295	38							1.60	-1.63	0.80	0	6	18	11	2	w.	E. E. McCollm.	
Bustleton	Philadelphia	125	8	57.6		89	5	24	21	40	0.79		0.27	0	5	20	4	7	w.	Experiment Station.
Carlisle	Cumberland	467	55	57.5	+5.2	92	5	26	21	39	1.52	-1.74	0.71	0	6	23	3	5	ne.	Prof. C. E. Miller.
Catawissa	Columbia	520	25	55.0	+1.4	92	6	23	21	43	2.70	-0.40	0.80	0	9	20	6	5	w.	H. H. Yetter.
Center Hall	Center	1,272	26					25	20		2.30	-0.75	0.68	0	9	20	5	6	.....	S. W. Smith.
Chambersburg	Franklin	631	22	56.0	+3.2	91	5	26	21	43	2.42	-0.78	1.17	0	5	17	10	4	sw.	William B. Spear.
Clearfield	Clearfield	1,120	12	55.0	+2.0	92	1	21	21	49	2.75	-0.57	1.22	0	8	19	5	7	nw.	E. W. Hess.
Coatesville	Chester	380	34	55.4	+1.1	88	5	19	21	38	1.03	-2.49	0.58	0	6	14	12	5	w.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	12	55.6		89	5	24	21	38	2.15	-0.82	1.35	0	5	20	4	7	nw.	Wm. A. Rorer.
Emporium	Cameron	1,050	34	49.8	-0.2	85	5	17	21	42	3.45	+0.15	1.48	0	6	20	5	6	w.	T. B. Lloyd.
Ephrata	Lancaster	380	21	56.4	+1.3	87	5	26	21	36	1.63	-1.54	0.93	0	5	19	5	7	n.	E. K. Hershey.
Everett	Bedford	1,040	24																J. E. Thropp Co.	
Freeland	Luzerne	1,970	7	50.0		82	6	22	19	30	3.81		1.51	T.	8	18	8	5	sw.	Theo. Reichmann.
George School	Bucks	190	15	57.0	+2.1	89	5	22	21	47	1.04	-2.21	0.28	0	7	23	6	2	nw.	Prof. N. W. Swayne.
Gettysburg	Adams	600	48	58.0	+5.8	94	5	26	21	41	2.85	-0.35	1.19	0	6	21	4	6	sw.	Col. E. B. Cope.
Gordon	Schuylkill	840	18	52.6	+1.9	87	6	20	21	41	5.35	+0.97	2.60	0	7	21	3	7	nw.	Capt. J. G. Johnson.
Hamburg	Berks	535	29	54.8	+0.9	88	5	22	21	37	1.91	-2.15	0.75	0	6	20	6	5	w.	State Sanatorium.
Hanover	York	600	18	58.3	+2.2	90	5	29	21	32	1.45	-1.41	0.79	0	5	23	3	5	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	52	57.7	+3.7	89	5	33	21	30	3.16	+0.21	1.74	0	6	16	8	7	w.	U. S. Weather Bureau.
Hawley	Wayne	900	3	51.6		85	6	18	21	44	3.05		1.25	0	6				J. S. Pennell.	
Huntingdon	Huntingdon	650	34	55.2	+2.7	90	5	22	21	48	3.41	+0.30	2.02	0	8	21	3	7	w.	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	2	55.0		88	6	23	21	42	1.87		0.67	0	9	23	3	5	.....	C. B. McCullough.
Lancaster	Lancaster	255	34	55.2	+1.8	93	5	24	27	46	2.68	-0.40	2.07	0	5	21	8	2	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	24	52.6	+2.1	88	6	19	21	46	2.90	+0.14	1.00	0	8	17	6	8	.....	C. P. Darling.
Lebanon	Lebanon	469	81	57.3	+4.1	92	6	27	21	39	2.11	-1.41	1.44	0	5	18	9	4	w.	S. B. Benzing.
Lewisburg	Union	450	47	55.6	+5.4	93	6	27	19	43	3.23	-0.01	1.53	0	8	22	5	4	w.	Prof. W. G. Owens.
Lykens	Dauphin	680	7	54.6		91	6	19	21	44	4.08		2.57	0	9	20	6	5	nw.	Susquehanna Collieries Co.
Marcus Hook	Delaware	50	2	59.0		92	5	32	21	34	0.73		0.22	0	7	11	19	1	sw.	Gen. Chemical Co.
Mauch Chunk	Carbon	600	32	54.8	+2.5	91	6	22	21	44	5.04	+1.28	2.72	0	8	18	5	8	w.	R. K. Wintermute.
Mifflintown	Juniata	445	18	56.2	+3.8	91	5	26	21	51	3.11	-0.13	0.97	0	7	17	5	9	w.	Wellington Smith.
Montrose	Susquehanna	1,658	19			86	6				2.26	-1.26	0.90	0	5	17	9	5	w.	Silas Jagger.
Mount Pocono	Monroe	1,720	20																Cecil J. Hoskinson.	
Muncy Valley	Sullivan	1,045	10	52.4		85	6	21	21	42	2.20	-1.16	0.59	T.	9	18	10	3	w.	A. H. Boatman.
Narberth	Montgomery	300	3	57.8		90	5	27	21	36	1.35		0.54	0	10	18	9	4	sw.	Charles Decker.
Neshaminy Falls	Bucks	60	33	56.4		92	5	21	21	45	0.65		0.21	0	5	21	4	6	n.	North Springfield Water Co.
Palmerton	Carbon	398	5	54.4		91	6	22	20	47	2.59		0.70	0	7	23	4	4	sw.	F. G. Breyer.
Philadelphia (a)	Philadelphia	117	51	60.6	+4.3	91	5	38	21	26	0.71	-2.39	0.29	0	6	16	5	10	sw.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	6	59.8		91	5	35	21	30	0.68		0.29	0	4				Commandant, Navy Yard.	
Phoenixville	Chester	100	11	57.2		87	5	23	21	38	1.10		0.46	0	4	24	6	1	s.	North Springfield Water Co.
Quakertown	Bucks	496	37	54.5	+2.4	89	5	21	20	49	0.82	-2.55	0.19	0	8	15	9	7	nw.	John E. Benner.
Reading	Berks	325	52	58.0	+3.3	89	5	30	21	32	1.18	-2.08	0.61	0	6	16	10	5	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	27	54.3	+2.9	87	6	26	21	34	3.56	+0.65	1.62	T.	7	11	11	9	sw.	U. S. Weather Bureau.
Selingsgrove	Snyder	455	32	54.9	+2.3	89	5	24	21	42	5.60	+2.06	2.15	0	8	19	4	8	sw.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	26	58.4		86	5	29	21	31	1.09	-2.25	0.50	0	5	19	10	2	nw.	W. S. Guiles.
State College	Center	1,217	37	52.9	+1.9	85	5	25	21	35	3.62	+0.73	2.38	0	7	21	6	4	w.	C. A. Kern.
Towanda	Bradford	754	27	52.6	+1.8	87	6	19	21	41	1.45	-1.65	0.63	0	6	19	2	10	sw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	66	49.8	+0.7	85	5	12	21	50	2.29	-0.91	1.02	0	5	24	1	6	sw.	George W. Hill.
West Chester	Chester	455	84	57.2	+2.7	87	5	28	21	34	1.56	-2.18	0.52	0	6	22	5	4	nw.	Arthur M. Hay.
Williamsport	Lycoming	521	35	56.0	+3.4	89	6	26	21	38	2.40	-0.97	0.92	0	6	23	4	4	se.	Jacob April.
York	York	400	34	57.9	+4.3	94	5	24	31	46	2.81	-0.07	1.94	0	5	21	5	5	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	29	57.2		94	5	30	19	45	2.20	-0.31	0.56	T.	8	13	7	11	sw.	U. S. Engineer.
Bradford	McKean	1,427	7	50.0		85	6	18	21	45	2.77		1.01	0	12	15	6	10	sw.	City Engineer.
Brady Bend	Armstrong	930	4	50.5		87	5	18	21	47	2.18		0.60	0	10	16	7	8	sw.	Edward R. Dewey.
Brookville	Jefferson	1,173	31	50.3	-0.1	87	5	19	21	47	2.28	-0.69	0.83	0	6	24	3	4	.....	John Fawcett.
Claysville	Washington	1,150	18			88	5				2.22	-1.10	0.60	0	8	15	6	10	n.	J. L. Melvin.
Corry	Erie	1,430	10	52.2		86	1	21	21	43	3.82		1.10	0	12	19	7	5	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	25			84	3				1.89	-1.36	0.64	0	5	18	5	8	w.	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	4	50.1		83	5	17	21	47	2.36		0.64	T.	8	23	5	3	w.	D. H. Jones.
Elk Lick	Somerset	2,700	5																J. S. Stevanus.	
Franklin	Venango	1,000	49	53.2	+1.9	90	5	22	21	48	2.47	-0.64	0.70	0	10	18	0	13	n.	F. E. Dixon.
Greensburg	Westmoreland	1,150	14	55.4	+1.6	88	5	27	19	40	2.53	-0.60	0.79	0	9	15	9	7	sw.	Westmoreland Water Co.
Greenville	Mercer	950	27	53.0	+2.7	90	5	22	28	49	1.72	-1.93	0.44	0	8	3	19	9	.....	J. R. Marks.
Grove City	Mercer	1,256	15	54.2	+2.8	88	5	24	19	41	1.54	-2.04	0.37	0	7	16	5	10	sw.	Prof. H. W. Harmon.
Indiana	Indiana	1,350	2																	

Daily Precipitation for October, 1922.

Stations	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh							.24	.18	.74	.09														.13								1.47
Altoona	Juniata						.30	.15	.04	1.32	T.						.30							.34	.11		.04						2.60
Ansonia|||	W. Br. Susq.							.77	.31	.62	.83						.20								.54		.03	T.					3.30
Arendtsville	Potomac						.64	.07	.02	1.02														*	.25								2.00
Austin	W. Br. Susq.																																
Bellefonte	do.						.20	.14	.24	1.38													.30										2.26
Bethlehem	Lehigh						.80	.30		.17	.07														.20		.06						1.60
Bloersville	Lower Susq.						1.05			1.36														T.		.30							2.71
Bustleton	Lower Del.						.27	.14		.02						.11								.18	.25								0.71
Carlisle	Lower Susq.						.16	.40	T.	.71							.02							.18	T.		.05						1.51
Catawissa	N. Br. Susq.						.18	.61	.08	.65							.01							.22	.02	.14							2.70
Center Hall	Susquehanna						.30	.18	.46	.68	.18	.20					.12							.14		.04							2.30
Chambersburg	Potomac						.90	.04	.07	1.17														.24									2.42
Clearfield	W. Br. Susq.						.15	.51	.03	1.22		.07					.22							.48	.07								2.75
Coatesville	Lower Del.						.11	.15	.18	.40	.03													.16									1.03
Colebrook	Lower Susq.						.25	.10	.08	1.35							T.							.33			T.						2.15
Cresson|||	Juniata						.17	.26	*	.90	*	.03					.41								.53		.07						2.37
Doylestown	Lower Del.						.11	.12		.24							T.								.17		.02						0.66
Driftwood	W. Br. Susq.						.30	.07	T.	.60	.70	.07	.02				.04							.75		.20	.05						2.80
Emporium	W. Br. Susq.						.31	.60		1.48		T.					T.	.23						.61	T.	.22							3.45
Ephrata	Lower Susq.						.17	.05	.93	.16														.32									1.63
Everett	Juniata																																
Forest City	N. Br. Susq.						*	1.19	T.	.84	.18						T.	.41						*	.40	.03							3.05
Freeland	Lehigh						.15	.51	.62	.83	.06						.38								.30		.10	.01					3.81
George School	Lower Del.	T.					.18	.28	T.	.14	T.					.11	T.	.02						.08	.28								1.04
Gettysburg	Potomac						.39	1.19	.05	1.03														.15	.04								2.85
Girardville	Susquehanna						.55	.93	.98	1.11														.40		.23							4.20
Gordon	Lower Susq.						.40	1.56		2.60							.21							.34	.08	.16							5.35
Gouldsboro|||	Lehigh							1.56	1.60	.90	.16						.30								.31	.03		.12					4.98
Graterford	Schuylkill						.09	.06	.12	.08	.06													.28									0.69
Hamburg	Schuylkill						.21	.60		.75							.07							.23		.05							1.91
Hanover	Lower Susq.						.13	.33		.79														.13	.07								1.45
Harrisburg***	do.						.10	1.07	.37	1.37														.24		.01							3.16
Hawley|||	Upper Del.						.12	.52	.63	.05							.38								.22								3.05
Holtwood|||	Lower Susq.							.05	.08	2.68	.01														.17								2.99
Huntingdon	Juniata						.20	.14	.21	2.02							.44							.24	.06	.10							3.41
Jersey Shore	W. Br. Susq.						.18	.15	T.	.67	.05						.38	.02						.26	.02	.14							1.87
Lancaster	Lower Susq.						.06			2.07														.52	*	.03							2.68
Lansford|||	Lehigh						*	1.90	.84	.03							.43							.21		*	.11						3.52
Lawrenceville	N. Br. Susq.						.15	.60	.25	1.00	.10	.05					T.	.25						.50									2.90
Lebanon	Lower Susq.						.28	.06	1.44	.01														.32									2.11
Lewisburg	W. Br. Susq.						.32	.34	1.53		.03						.72							.20	.01	.08							3.23
Lloyd	W. Br. Susq.						.85	.24	*	1.06							.48							.39		.11							3.02
Lock Haven	W. Br. Susq.						.59	.05	.03	.59	.10						.34							.34		.11							2.15
Lykens	Susquehanna				T.		.20	.48	.15	2.57	.05						.25							.26	.07	.05							4.08
Marcus Hook	Lower Del.						.08	.04	.02	.05	.16					.16								.22									0.73
Mauch Chunk	Lehigh						.85	.93	*	2.72	.03					.17								.22		.12							5.04
Mifflintown	Juniata						.54	.32	.02	.94	.07						.97							.25			.12						3.11
Montrose	N. Br. Susq.						.23	.30		.90							.38							.45			T.						2.26
Mount Pocono	Upper Del.																																
Mount Union	Juniata						.25	.06	2.08	1.87							.40							T.									4.66
Muncy Valley	W. Br. Susq.						.29	.23	*	.59	.08						.51							.42	.04	.04							2.20
Narberth	Lower Del.						.17	.06	.01	.03	.38					.10	.01	.02						.54	.03								1.35
Neshaminy|||	Lower Del.						.21	.17	.05							.07								.15									0.65
Palmerston	Lehigh						.70	.42	.46	.52							.15							.25		.09							2.59
Philadelphia (a)	Lower Del.						.15	.13	T.	.01						.12	T.	.01						.29		.01							0.71
Philadelphia (d)|||	do.						.18	.03	T.							.18	T.		T.					.29		.01							0.68
Phoenixville	Schuylkill						.12	.29		.46							T.							.23									1.10
Pottstown	do.						.13	T.		.70	.04				</																		

Daily Precipitation for October, 1922. - Continued from page 39.

Stations.	Drainage Basin.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Ebensburg	Conemaugh							.17	.41		.64		.05					.41						.55	.07		.06						2.36				
Edinboro	Allegheny																																				
Elk Lick	Youghiogheny																*	.27						.61	.14	*	.11						2.93				
Falls Creek	Allegheny							.07	.36	*	1.32	.03	.02				*	.27						.61	.14	*	.11						2.93				
Franklin	Allegheny							.35	.06	.58	.21	.10					.08	.25						.04	.70		.10						2.47				
Freeport	Allegheny							T.	.04	.31	.98	.71	.03					.24							.62		T.						2.93				
Greensburg	Youghiogheny							.16	.41	.07	.77	.02	.01				*	.30						.79			T.						2.53				
Greenville	Beaver							T.	.34	.15	.34		*	.09				.34							.44		.02						1.72				
Grove City	Beaver							.27	.24	.15	.22		.04	T.				.25						.37									1.54				
Herrs Isl. Dam	Ohio							.01	.16	.29	.45	.10	.01					.26							.42			T.					1.70				
Indiana	Conemaugh							.31	.36	.34	.50		.05					.35						.60			.05						2.56				
Irwin	Youghiogheny							.20	.35	.16	1.53	T.						.38						.61			T.						3.23				
Johnstown	Conemaugh							.15	.39	.01	.74	T.	.01				*	.46						.45			.03						2.24				
Ketner	Allegheny							.12	.47	.10	1.11	.08	.19	.05				.25						.55			.23						3.15				
Linesville	Beaver							.38	.13	.33	.04	.04	.05					.12	.13					T.			.06						1.28				
Lock No. 4	Monongahela							.05	.35	.34	.66	.22	T.					.31							.51								2.44				
Lycippus	Conemaugh							.19	.36	.37	.62	.04						.54						.56									2.68				
New Castle	Beaver							.08	.34	.14	.28	.03	.02					.02	.22					.18	.31	.01							1.63				
Newell	Monongahela							.30	.45	.38	.44							.34	.03					.44									2.38				
North Shenango	Beaver							.27	.23	.35	.07	.15						.23	.17						.86								2.33				
Parkers Landing	Allegheny							.30	.17	.80	.07	.05						T.	.42					T.	.73		T.						2.54				
Pennline	Beaver							.21	.38	.24	.09	.06	.13					.13	.09					.09	.61		.02						2.05				
Pittsburgh	Ohio						T.	.15	.30	.19	.33	T.	.01				T.	.22	.04					.38			T.						1.62				
Ridgway	Allegheny							.07	.30		1.45		.12					.36						.54									2.84				
Saltsburg	Conemaugh							T.	.15	.27	.35	.43	.03					.45							.48								2.26				
Saegertown	Allegheny							.10	.45	.03	.39		.15					.17						.61	.12	*	.22						2.24				
Sharon	Beaver							T.	.28	.20	.20	.08	.03					.06	.36					.02	.32			T.					1.55				
Somerset	Youghiogheny							.33	.25	.10	1.73	T.						.25						.56									3.22				
Springdale	Allegheny							.04	.36	.78	.58							.60						.62				.02					3.00				
Summit	Beaver							.54	.62	.58				.34				.20						.80									3.08				
Tionesta	Allegheny						*	*	.35		1.80	.15						.10	.16					*	.83		.12						3.51				
Turnerville	Beaver																																				
Uniontown	Monongahela							.36	.55	1.50	1.07							.27						.42	.03		T.						4.20				
Unity Reservoir	Youghiogheny							.13	.59	.19	.72	.02					*	.38						.43									2.46				
Vandergrift	Conemaugh							.10	.49	.05	1.10	.09	.09					.26						.52			.03						2.73				
Warren	Allegheny							.20	.14	.09	.90	.08	.18					.10	.15					.67			.32						2.82				
Washington	Ohio							.21	.35	.41	.23	.02	.02					.40						.40									2.04				
Waynesburg	Monongahela							.25	.49	.62								.52						.40	.10								2.88				
Westford	Beaver							.40	.20	.25		.25						.15	.16					.50	.05								1.96				
West Newton	Youghiogheny							T.	.33	.54	1.03	.46	T.					.36							.45								3.17				
Lake Drainage.																																					
Erie	Lake Erie							.11	.45	.10	.68	.04	T.				.01	.09	T.					.58		.05							2.01				
West Bingham	Genesee							.08	.63	.10	.75	.05						T.	.33	T.				.80	.03		.05						2.82				

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.† Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. §§ Post Office address:—Greensburg

Daily Temperatures for October, 1922.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.		
Allentown.....	Maximum	48	55	54	56	60	60	63	56	59	65	53	40	38	40	50	58	42	33	34	28	29	36	41	38	43	35	36	31	35	37	29	44.6	
	Minimum	84	78	82	85	86	85	72	69	67	69	68	55	56	61	76	70	65	52	59	55	63	68	55	50	61	54	61	63	61	63	62	66.3	
Altoona.....	Maximum	50	50	55	53	61	60	62	62	46	55	52	46	31	31	40	51	52	36	28	38	28	36	41	35	35	37	34	42	34	32	25	43.2	
	Minimum	88	86	89	87	88	92	75	78	71	78	78	65	63	66	76	76	69	59	57	56	62	70	61	57	62	49	42	62	60	54	61	68.9	
Catawissa.....	Maximum	45	45	46	49	53	49	53	67	53	64	52	53	32	31	42	46	50	38	26	29	23	29	49	39	33	44	42	30	34	25	24	41.1	
	Minimum	85	87	87	82	91	90	75	81	70	73	70	63	60	60	72	75	73	59	57	58	63	67	58	56	70	61	68	70	64	63	62	70.0	
Chambersburg.....	Maximum	46	45	45	51	48	52	59	64	51	60	52	49	36	33	44	50	54	40	27	31	26	34	36	38	34	42	30	34	35	33	26	42.1	
	Minimum	84	86	88	84	84	78	75	81	73	77	74	68	59	68	72	75	78	57	55	55	58	64	66	52	69	55	54	56	58	56	60	68.1	
Emporium.....	Maximum	78	79	82	82	85	85	66	68	65	72	69	57	54	64	70	69	68	50	48	49	53	65	44	46	55	52	48	55	58	50	56	62.6	
	Minimum	43	46	48	48	46	43	49	55	51	52	54	42	31	25	33	47	41	38	22	29	17	26	42	35	30	30	25	31	22	23	21	36.9	
Erie.....	Maximum	78	77	77	77	83	80	68	68	61	73	61	54	57	71	64	64	59	47	55	43	62	72	62	50	57	48	57	49	53	46	46	61.9	
	Minimum	60	61	62	59	70	64	60	54	53	56	51	44	37	45	50	56	45	39	34	33	32	46	40	40	48	37	38	40	38	39	35	47.3	
Grove City.....	Maximum	83	82	83	87	88	87	80	75	62	71	61	53	56	68	72	73	61	51	58	51	66	69	72	57	59	60	62	60	65	69	60	67.8	
	Minimum	47	52	52	46	52	53	58	51	46	57	46	40	29	38	39	55	40	37	24	30	25	30	43	44	42	35	28	33	33	35	26	40.8	
Harrisburg.....	Maximum	82	82	84	83	89	87	72	79	71	75	7	62	57	60	70	72	56	56	50	60	66	64	54	64	54	61	63	62	59	54	58	67.3	
	Minimum	54	53	56	58	59	61	63	62	59	67	57	45	43	41	52	57	47	43	36	36	33	38	44	42	40	42	38	48	37	40	37	48.1	
Holtwood.....	Maximum	81	86	88	84	84	78	75	81	73	77	74	68	59	68	72	75	78	57	55	55	58	64	66	52	69	55	54	56	58	56	60	68.1	
	Minimum	54	52	55	58	59	58	61	65	56	59	62	53	42	46	52	59	63	48	41	40	32	36	40	43	40	41	40	40	37	37	38	48.4	
Indiana.....	Maximum	86	87	85	85	86	85	80	70	60	71	67	66	62	70	75	73	67	52	58	55	67	71	62	51	58	55	60	61	70	65	60	68.6	
	Minimum	51	50	49	51	50	56	60	55	45	56	50	48	28	38	42	50	48	32	24	30	26	35	45	35	36	38	29	33	35	38	28	44.4	
Mifflintown.....	Maximum	88	82	89	88	91	91	78	77	67	71	72	64	63	61	75	75	67	56	58	62	62	70	60	55	68	61	66	66	66	64	66	70.3	
	Minimum	50	48	50	52	40	50	56	62	51	58	53	53	34	30	41	46	50	38	37	30	46	31	39	39	31	40	41	37	32	28	28	42.0	
Philadelphia.....	Maximum	81	86	86	82	91	85	78	82	77	83	74	68	59	63	70	75	75	61	54	53	59	66	69	53	67	58	60	60	60	56	60	69.4	
	Minimum	59	61	63	65	65	65	65	68	62	69	62	61	54	45	46	58	61	51	45	39	43	39	46	50	43	43	40	39	48	39	39	51.8	
Pittsburgh.....	Maximum	78	79	82	83	86	85	73	67	62	73	62	51	54	57	70	73	71	60	51	58	53	65	71	62	53	58	50	61	63	70	64	60	66.2
	Minimum	55	56	56	56	60	67	64	54	53	58	52	42	36	44	48	57	44	37	34	39	34	40	42	40	42	40	39	36	40	42	44	36	46.7
Reading.....	Maximum	83	85	85	83	89	88	74	80	74	79	73	63	59	63	73	72	72	58	55	52	60	67	65	53	63	55	59	60	60	53	58	68.2	
	Minimum	53	53	57	56	63	63	64	63	57	68	58	47	42	41	53	59	48	42	35	35	30	37	48	41	43	40	38	40	36	38	35	47.8	
Scranton.....	Maximum	84	85	80	82	85	87	70	73	77	72	62	53	60	71	72	68	55	52	47	57	66	61	49	59	52	55	54	54	44	44	46	64.4	
	Minimum	51	51	52	52	58	55	59	58	55	62	58	45	39	37	48	50	44	36	32	33	26	36	44	37	37	34	33	37	32	33	37	43.9	
Somerset.....	Maximum	82	82	83	80	78	83	82	68	68	65	75	62	50	59	63	75	67	46	55	60	55	57	71	58	48	60	61	64	62	73	75	62	66.6
	Minimum	41	42	48	50	50	50	58	56	47	52	48	41	27	33	42	40	32	27	25	35	24	33	42	32	30	28	40	27	35	33	35	38.8	
State College.....	Maximum	78	75	83	82	85	81	73	70	64	70	68	57	55	58	70	68	64	50	56	51	60	63	60	50	61	53	59	59	58	56	56	64.3	
	Minimum	46	48	48	51	50	58	58	58	44	55	53	45	32	36	39	51	45	35	28	35	25	32	44	35	38	33	38	29	31	29	41	41.5	
Towanda.....	Maximum	84	81	80	84	86	87	73	74	66	77	74	60	54	63	74	74	65	53	54	52	60	68	60	48	63	57	58	52	52	41	47	65.2	
	Minimum	46	46	47	56	52	48	55	56	54	59	58	48	34	30	38	51	45	35	28	31	19	27	45	36	30	30	26	36	23	25	31	40.1	
Uniontown.....	Maximum	79	83	84	82	87	85	76	72	62	72	66	55	42	72	75	70	65	54	61	57	67	73	61	55	61	55	63	64	78	63	62	68.4	
	Minimum	52	50	50	55	53	57	63	57	53	59	48	48	31	39	48	51	48	36	28	35	28	39	49	36	43	40	30	42	37	38	27	44.2	
Warren.....	Maximum	85	83	85	88	88	87	75	65	65	72	64	52	59	68	71	70	60	50	58	51	60	60	59	51	57	48	60	58	58	52	48	64.7	
	Minimum	46	48	49	48	50	45	65	50	49	54	45	40	35	40	46	53	43	37	26	30	21	29	40	32	39	32	26	35	28	29	38	44.7	
Wellsboro.....	Maximum	84	79	80	83	85	85	70	68	63	70	69	55	51	61	74	70	62	48	56	46	62	68	55	49	61	55	60	53	54	44	48	63.5	
	Minimum	38	40	43	48	48	43	50	54	50	55	51	39	27	27	31	42	42	35	21	27	12	25	42	29	44	30	23	35	20	20	32	36.2	
Williamsport.....	Maximum	85	80	85	86	88	89	84	75	74	73	73	68	66	61	72	72	72	58	58	58	57	64	62	54	65	62	63	61	53	57	69.0		
	Minimum	47	47	50	51	51	51	56	64	54	60	59	57	35	32	40	49	55	40	29	35	26	31	45	40	32	40	31	38	29	30	31	43.1	

JAN 6 1923

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXVII.

NOVEMBER, 1922.

No. 11.

GENERAL SUMMARY.

This was the fifth consecutive month in which the average precipitation for the State was less than normal. The continued deficiency in rainfall produced the most serious drought experienced in the State since 1909, when the deficiency likewise extended through five months beginning with July. The average rainfall for the State this year was only 1.48 inches in September, 2.51 in October, and 1.21 in November, making a total of 5.20 inches for the three months. State averages are available beginning with the year 1888, but the only instance of a drought of such severity in the corresponding months was in 1908, when the State averages for the three months amounted to only 4.45 inches.

During the early part of October the western half of the State had some relief from the dry conditions, but after the 11th the course of the storms was so far north that very little rain occurred within the State. During November the storms continued to pass considerably farther north than usual, and the result was scanty precipitation over the greater part of the State, especially in the section east of the mountains. However, in the counties near Lake Erie the precipitation averaged but little less than normal, while the number of rainy days seemed to be greater than usual for November.

While the drought did not become severe early enough to affect crops as seriously as has happened in some other years, the water supply in the eastern part of the State was probably never so low at any time during the last 50 years as it became in November, 1922. At Philadelphia the total rainfall for four months ending with November was only 4.93 inches, and the nearest approach to such a condition for a period of equal length indicated in the records for 103 years was in the corresponding months of 1916, when the total rainfall amounted to 6.07 inches.

Some cities and towns had to shut off the water during certain hours daily to conserve the supply. Some coal mines were closed for lack of sufficient water for operation, and other very unusual difficulties were experienced.

TEMPERATURE.

The average temperature for the State, as determined from the records of 76 stations, was 42.9°, or 2.2° above the November normal. Temperatures were generally in excess of the normal during the first 20 days of the month, after which it was much cooler with an average for the last 10 days about normal or a little below. The highest temperature recorded in the State was 73° at Claysville and Irwin on the 2d, and the lowest was 12° at Bradys Bend on the 29th.

PRECIPITATION.

The average precipitation for the State, as determined from the records of 127 stations, was 1.21 inches, which is 1.46 inches less than normal. The greatest amount for the month was 4.52 inches at Saegerstown, and the least was 0.23 inch at Neshaminy Falls. The greatest 24-hour precipitation was 1.17 inches at Irwin on the 6th.

Snowfall averaged 1.8 inches. Locally the amounts varied from trace at most of the stations east of the mountains to a maximum of 9.7 inches at Corry. The greatest daily snowfall was 6.0 inches on the 25th at Saegerstown; on the 30th four inches of this snow still remained on the ground. G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Total move- ment, in miles.	Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.			Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	56.3	294.9	19	73	65	11,603	16.1	48	nw.	23
Harrisburg.....	164.4	299.4	55	70	64	4,508	6.3	30	nw.	23
Philadelphia.....	153.7	299.4	51	68	58	6,964	12.7	32	nw.	24
Pittsburgh.....	109.7	297.0	37	76	67	8,730	12.1	47	nw.	23
Reading.....	144.0	299.0	48	74	68	3,582	5.0	24	n.	25
Scranton.....	.....	.....	.....	81	68	4,980	6.4	33	sw.	23

* For any five-minute period.

COMPARATIVE DATA FOR NOVEMBER.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	42.2	79	4	3.37	6.22	1.99	9	7	14
1889.....	41.8	73	10	6.72	10.16	2.72	5	8	17
1890.....	41.8	78	10	1.49	4.29	0.78	9	10	11
1891.....	39.7	76	6	2.65	5.70	1.09	9	8	13
1892.....	39.0	80	10	4.34	7.08	1.61	6	8	16
1893.....	39.2	68	-4	2.93	5.69	1.16	8	11	11
1894.....	38.2	74	6	2.50	3.64	0.74	10	9	12
1895.....	42.9	78	6	2.48	5.73	0.97	10	8	11
1896.....	46.0	83	12	3.55	8.05	0.82	8	9	13
1897.....	41.6	76	2	5.28	7.04	2.37	6	8	16
1898.....	40.0	73	2	4.03	7.34	1.44	8	9	13
1899.....	41.5	72	8	2.66	4.86	0.61	10	8	12
1900.....	43.5	79	7	4.10	6.92	1.67	6	9	15
1901.....	36.0	76	7	2.56	5.00	1.23	7	8	15
1902.....	47.3	78	9	1.53	3.02	0.50	10	8	12
1903.....	36.9	78	0	2.18	5.33	0.88	11	8	11
1904.....	38.8	79	-4	1.14	3.31	0.14	10	9	11
1905.....	39.1	68	5	2.47	3.72	1.08	11	9	11
1906.....	41.5	80	9	1.48	3.08	0.54	12	8	12
1907.....	39.8	70	4	3.60	7.52	1.05	13	8	9
1908.....	41.2	75	-2	0.90	1.97	0.20	12	8	10
1909.....	46.4	80	15	1.40	3.97	0.26	12	8	19
1910.....	36.8	68	9	2.45	5.63	0.33	4	7	10
1911.....	37.8	77	7	2.84	5.68	0.99	7	7	16
1912.....	43.0	81	10	2.17	4.83	0.61	10	8	12
1913.....	43.9	79	10	3.05	6.34	1.43	10	5	15
1914.....	40.6	81	-2	1.76	4.27	0.57	12	9	9
1915.....	42.1	79	13	2.28	5.32	0.22	10	9	11
1916.....	41.3	79	4	2.27	7.97	0.88	13	6	11
1917.....	37.6	69	-5	0.63	1.37	0.12	14	7	9
1918.....	42.1	76	11	2.03	4.07	0.44	12	6	12
1919.....	41.2	76	11	5.35	8.45	1.84	11	7	12
1920.....	40.3	75	5	3.54	6.42	1.85	7	7	16
1921.....	42.3	80	3	5.75	9.14	3.20	5	7	18
1922.....	42.9	73	12	1.21	4.52	0.23	10	7	13

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	1.6	1.8	9	1.5	2	18
Phillipsburg.....	Delaware.....	0.4	0.5	9	0.2	29	22
Mauch Chunk.....	Lehigh.....	4.2	4.4	7	4.0	26	15
Wilkes-Barre.....	Susquehanna.....	2.6	2.8	22	2.4	3	20
Williamsport.....	Susquehanna.....	0.2	0.2	1	0.1	27	20
Harrisburg.....	Susquehanna.....	3.2	3.3	1	3.2	2	17
Freeport.....	Allegheny.....	2.3	3.2	19	2.0	1	22
West Newton.....	Youghiogheny.....	-0.1	0.0	1	-0.2	5	20
Lock No. 4.....	Monongahela.....	12.4	12.8	22	12.3	9	20
Pittsburgh.....	Ohio.....	7.1	7.6	21	6.6	5	22
Beaver Dam.....	Ohio.....	7.9	8.4	19	7.1	9	30

Climatological Data for November, 1922.																				
Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	10	43.3	.....	64	12	25	27	29	0.47	-1.93	0.19	.....	5	20	3	7	nw.	John A. Frick.
Altoona.....	Blair.....	1,615	35	42.6	+1.8	64	5	23	26†	32	1.11	-0.80	0.55	4.0	9	12	5	13	w.	Lewis E. Biller.
Arendtsville.....	Adams.....	700	3	.....	.....	.....	.....	.....	.....	.....	0.65	.....	0.23	1.5	5	14	1	15	nw.	R. C. Walton.
Bethlehem.....	Northampton.....	295	38	.....	.....	.....	.....	.....	.....	.....	0.53	-2.58	0.24	.....	4	.....	.....	.....	w.	E. E. McColl.
Bustleton.....	Philadelphia.....	125	3	45.2	.....	69	12	24	27	34	0.77	.....	0.30	0	4	11	5	14	n.	Experiment Station
Carlisle.....	Cumberland.....	467	55	44.5	+3.8	69	12	25	1†	37	0.86	-2.33	0.29	2.0	7	14	5	11	nw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	25	42.6	+0.2	68	5	23	28	40	0.75	-1.96	0.26	T.	8	10	2	18	w.	H. H. Yetter.
Center Hall.....	Center.....	1,272	26	.....	.....	72	4	22	24†	35	0.33	-1.69	0.14	2.0	5	12	6	12	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	22	44.0	+2.6	72	12	24	10†	38	0.75	-1.90	0.28	1.8	6	10	10	10	nw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	12	42.8	+2.1	70	5	18	18	39	1.15	-1.69	0.33	2.2	10	12	4	14	ne.	E. W. Hess.
Coatesville.....	Chester.....	380	34	42.0	-0.9	67	12	19	26†	33	0.52	-2.67	0.27	T.	5	12	9	9	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	12	43.2	.....	66	12	25	28	37	0.86	-1.76	0.41	0.3	9	13	3	14	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	34	40.3	+1.1	59	14†	24	26	34	1.06	-1.65	0.42	0.5	9	9	4	17	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	21	44.0	+1.6	67	12	25	26	35	0.83	-1.56	0.30	0.5	6	10	9	11	n.	E. K. Hershey.
Everett.....	Bedford.....	1,040	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,970	7	36.8	.....	58	7	16	26†	30	1.08	.....	0.21	1.8	15	9	4	17	sw.	Theo. Reichmann.
George School.....	Bucks.....	190	15	43.5	+0.9	68	12	22	27	36	0.68	-2.03	0.33	T.	7	18	9	3	w.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	48	45.7	+4.4	72	12	25	27†	36	0.57	-2.10	0.24	0.5	5	10	12	8	nw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	18	41.2	+2.2	63	12	21	11†	40	0.70	-2.09	0.30	2.0	6	14	3	13	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	535	29	42.0	-0.2	64	13	22	11	36	0.62	-2.24	0.32	T.	4	18	5	7	w.	State Sanatorium.
Hanover.....	York.....	600	18	45.8	+1.6	72	12	25	29	30	0.72	-1.21	0.31	T.	5	15	8	7	s.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	52	45.2	+3.5	66	12	30	26	26	0.56	-1.79	0.27	0.5	6	8	9	13	w.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	3	39.4	.....	63	2	15	27	42	0.95	.....	0.32	T.	8	.....	.....	.....	.....	J. S. Pennell.
Huntingdon.....	Huntingdon.....	650	34	43.6	+2.1	66	5	22	17†	41	1.08	-1.18	0.37	1.2	9	11	2	17	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	2	42.6	.....	66	4	24	17	33	1.49	.....	0.90	0.8	10	10	4	16	.....	C. R. McCullough.
Lancaster.....	Lancaster.....	255	34	43.8	+0.7	70	12	20	27	44	0.62	-1.80	0.32	1.0	6	19	6	5	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	24	41.0	+2.3	67	12	17	29	32	0.85	-1.29	0.15	1.5	8	11	4	15	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	81	44.4	+2.2	67	12	27	11†	37	0.80	-2.09	0.46	0.5	7	16	4	10	w.	S. B. Benzing.
Lewisburg.....	Union.....	450	47	43.8	+4.7	69	3	24	17†	37	0.63	-1.88	0.19	T.	8	10	8	12	w.	Prof. W. G. Owens.
Lykens.....	Dauphin.....	680	7	42.7	.....	65	3†	21	1†	41	0.66	.....	0.30	T.	8	13	7	10	nw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	2	47.0	.....	69	12	27	26	29	0.53	.....	0.25	T.	4	2	24	4	sw.	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	32	43.0	+2.4	65	5†	21	28	38	0.74	-2.59	0.34	T.	6	13	5	12	w.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	18	45.4	+4.8	69	7	26	11	37	0.71	-1.13	0.33	0.5	6	5	5	20	nw.	Wellington Smith.
Montrose.....	Susquehanna.....	1,658	19	42.0	+5.1	69	7	15	27	28	1.07	-1.33	0.30	2.0	7	9	5	16	s.	Silas Jager.
Mount Pocono.....	Monroe.....	1,720	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	10	40.2	.....	62	3	18	28	32	0.95	-1.47	0.41	T.	7	8	9	13	sw.	A. H. Boatman.
Narberth.....	Montgomery.....	300	3	45.3	.....	68	12	25	26	31	0.54	.....	0.28	T.	5	10	7	13	nw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	33	43.2	.....	68	12	19	27	39	0.23	.....	0.18	T.	3	15	6	9	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	5	42.8	.....	64	1†	20	28	37	0.61	.....	0.31	T.	8	11	9	10	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	51	48.1	+3.2	69	12	30	26	22	0.43	-2.63	0.25	T.	4	7	11	12	nw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	6	46.8	.....	69	12	28	26	26	0.63	.....	0.35	0	2	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	11	43.5	.....	65	12	23	22†	33	0.55	.....	0.31	T.	3	20	8	2	w.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	37	41.2	+0.2	66	12	18	27	42	0.51	-2.65	0.25	T.	3	10	7	13	nw.	John E. Benner.
Reading.....	Berks.....	325	52	45.8	+3.3	65	12	27	26	28	0.55	-2.57	0.27	T.	5	7	13	10	nw.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	27	42.4	+3.3	62	7	25	26	24	0.76	-1.53	0.24	0.2	9	4	6	20	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	32	43.0	+1.5	65	3	18	24	37	0.75	-1.93	0.27	T.	9	8	9	13	sw.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	26	44.7	.....	65	12	28	22†	25	0.37	-2.51	0.20	T.	4	10	14	6	nw.	W. S. Guiles.
State College.....	Center.....	1,217	37	41.2	+1.5	62	11	23	2†	34	0.61	-1.69	0.27	0.5	6	9	7	14	w.	C. A. Kern.
Towanda.....	Bradford.....	754	27	40.8	+1.5	64	7	19	26	36	0.64	-1.36	0.14	0.5	11	10	6	14	nw.	Hiram E. Bull. C. E.
Wellsboro.....	Tioga.....	1,419	56	38.0	+0.5	62	11	20	13†	39	0.67	-1.96	0.20	1.5	10	17	3	10	w.	George W. Hill.
West Chester.....	Chester.....	455	84	44.2	+1.4	66	12	23	26	28	0.40	-3.23	0.23	T.	4	16	8	6	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	35	42.7	+1.9	66	3	21	21	31	0.77	-1.63	0.21	1.0	7	12	5	13	se.	Jacob April.
York.....	York.....	400	34	45.7	+3.2	71	12	23	30	40	0.81	-1.74	0.45	0.5	5	14	8	8	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam†.....	Beaver.....	700	29	46.2	.....	72	2	20	29	34	1.56	-0.78	0.61	2.3	16	6	3	21	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	7	39.4	.....	67	1	19	25	42	1.58	.....	0.46	3.4	16	8	4	18	sw.	City Engineer.
Bradys Bend†.....	Armstrong.....	930	4	39.8	.....	68	2	12	29	48	2.13	.....	0.73	3.1	13	7	5	18	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	31	39.2	+1.6	66	2	20	25†	39	1.59	-1.25	0.45	4.0	10	12	8	10	.....	John Fawcett.
Claysville.....	Washington.....	1,150	18	.....	.....	.....	.....	.....	.....	.....	0.97	-0.97	0.58	0.6	7	10	1	19	s.	J. L. Melvin.
Corry.....	Erie.....	1,430	10	40.8	.....	70	1	19	29	45	3.86	.....	0.67	9.7	21	9	5	16	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	25	42.2	+0.3	71	3	18	26†	43	1.54	-1.03	0.82	4.8	12	7	5	18	w.	Wm. A. Huff, Jr.
Ebensburg.....	Cambria.....	2,000	4	39.3	.....	68	15	19	29	38	1.51	.....	0.58	T.	12	12	8	10	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,700	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. S. Stevanus.
Franklin.....	Venango.....	957	49	41.2	+1.6	69	1	19	29	44	3.									

Daily Precipitation for November, 1922.

Stations	Drainage Basin.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh			.05			.14								.08	.19			.01	.01													0.47	
Altoona	Juniata	.01	.03				.55	T.					.06			.30									.53	.02		.10					1.11	
Ansonia|||	W. Br. Susq.		.18				.09		.03						.14																		0.63	
Arendtsville	Potomac						.21								.23				.07														0.65	
Bellefonte	do						.09																			.11	.14						0.34	
Berwick	Lehigh		.09				.03	.17							.24																		.53	
Bethlehem	Lower Susq.	T.						.35																									.95	
Bloersville	Lower Del.		.30				*	.17							.30																		.77	
Bustleton	Lower Susq.	.04	T.				.29	T.							.28				.04						.05	T.			.11	.05			.86	
Carlisle	Lower Susq.	.08	.10				.17	.04				.01			.26																		.75	
Catawissa	N. Br. Susq.		.14																							.01	.10	.04					.33	
Center Hall	Susquehanna	T.					.15	.04							.28				.11							.02	T.	.02		.10			.75	
Chambersburg	Potomac	.08	.10				.18		.15	.10		T.	T.		.33					.02	T.												1.15	
Clearfield	W. Br. Susq.	T.	.02				.09	.10							.27				T.														.52	
Coatesville	Lower Del.	T.	.01	T.			.28	.03	.02						.41	.01			.04		.01												.86	
Colebrook	Lower Susq.	.05	.07				.51		.05				.07		.30					.05						.22	.11	.10					1.63	
Cresson|||	Juniata		.06				.08	.21							.31					.01													.67	
Doylestown	Lower Del.						.65		T.	T.					.60	T.				.08													1.49	
Driftwood	W. Br. Susq.	T.	.20				.16		.10	.04			.05		.10	.32																	1.06	
Emporium	W. Br. Susq.	T.	.06	.05			.29								.30				.04														.83	
Ephrata	Lower Susq.																																	
Everett	Juniata							.17	.25						.19											.06	T.	T.		.11	.08			1.12
Forest City	N. Br. Susq.		.26					.21		.10	T.				.20	.17				.04	.03					.02		.02	.01				1.08	
Freeland	Lehigh	T.	.11	T.			.05	.15	T.						.33						.02												.68	
George School	Lower Del.						.14	.04							.24																		.57	
Gettysburg	Potomac	.04	.06				.16		.06	T.					.27																		.78	
Girardville	Susquehanna		.08				.12	.08							.30																		.70	
Gordon	Lower Susq.							.16	.08						.16	.12																	.82	
Gouldsboro|||	Lehigh		.22						.08						.37																			.70
Graterford	Schuylkill		.05				.08	.16							.32				.01														.62	
Hamburg	Schuylkill		.08				.21								.31					.11													.72	
Hanover	Lower Susq.						.22								.27					.03													.56	
Harrisburg***	do	.01	.01				.20		T.						.14	.03																	.95	
Hawley|||	Upper Del.		.32	.02			.24	.05							.08	.10																	.46	
Holtwood|||	Lower Susq.		.04				.21								.15					.18													1.08	
Huntingdon	Juniata	.15	.01				.37	.03	.02	T.					.23					.03													1.49	
Jersey Shore	W. Br. Susq.	.05	.90				.13	.05	T.						.32																		.62	
Lancaster	Lower Susq.		.03				.15								.17	.15																	.67	
Lansford|||	Lehigh		.08				.20	.02							.15																		.85	
Lawrenceville	N. Br. Susq.	.15	.10				.15		.15						.19					.03													.80	
Lebanon	Lower Susq.	T.	T.				.23	.02							.27																		.63	
Lewisburg	W. Br. Susq.	.03	.12				.12	.07	.02						.16																			
Lloyd	W. Br. Susq.						.13	.08							.30																		.61	
Lock Haven	W. Br. Susq.	.01	.05				.22	.04	T.						.23					.01													.66	
Lykens	Susquehanna	.02	T.	T.			.09	.16							.34																		.53	
Marcus Hook	Lower Del.		.05				.08	.10	T.						.22																		.74	
Mauch Chunk	Lehigh	.01	.11				.08	.10	T.						.22																		.71	
Mifflintown	Juniata	.02	.01				.33	.02							.22																		1.07	
Montrose	N. Br. Susq.	.10	.20				.12		.20	.10					.20																		.51	
Mount Pocono	Upper Del.						.33								.14					.03													.95	
Mount Union	Juniata	T.	.06				.13	.04	.06						.41																		.54	
Muncy Valley	W. Br. Susq.		.15				.09	.12							.28																		.23	
Narberth	Lower Del.	T.	.04				.09	.12							.08																		.61	
Neshaminy|||	Lower Del.		.02				.18								.31					.01													.43	
Palmerston	Lehigh		.08				.10	.06	T.						.25																		.63	
Philadelphia (a)	Lower Del.	T.	.06				.03	.09							.25																		.55	
Philadelphia (d)|||	do		.35	T.											.31																		.48	
Phoenixville	Schuylkill	T.	.06				.18								.31																		.79	
Pottstown	do	T.	.05				.23	T.							.20																		.51	
Pottsville	do		.02	.05			.20								.37																		.55	
Quakertown	Lower Del.																																	

Daily Precipitation for November, 1922. -Continued from page 43.

Stations.	Drainage Basin.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Elk Lick	Youghiogheny						.33		.08	.07			.08			.63			.03		.02		.07		.04	T.	.08	.11					1.74	
Falls Creek	Allegheny		.25													.70				.11	.02	.07	.08	.02	.04	.30	.18	.08	.07				3.81	
Franklin	Allegheny		.03	.08			.24	.33		.05	.27		1.00	.04		.70					.02	.07	.08	.02	.04	.30	.18	.08	.07				1.72	
Freeport	Allegheny	T.	.04				.24	.33			.08			.04	T.	.58	.04		T.	.14		.03	.02		.02	T.	.01	.06	.10				1.74	
Greensburg	Youghiogheny	.02	T.				.69		T.	.03				T.		.70		T.	.70		.13		.01		.04	.05	T.	.01	.06	T.				2.45
Greenville	Beaver		.11	.01			.76			.28		.10	.04			.74			.08		T.	.03	.02		.04	.05	T.	.01	.06	T.	.28		2.47	
Grove City	Beaver	T.	.04				.63		.17	.18			.04	T.		.78			.08		.16		.03		.33	.09	.01	.12	.09				1.52	
Herrs Isl. Dam	Ohio	T.	T.	T.			.09	.63		.02			T.	T.		.51	.10		T.	.10	T.	.01	T.		.01	.01	.01	.03	T.				2.34	
Indiana	Conemaugh	.05	.05				.70	.05				.15				.80			.10		T.		.02		.10	.10	.12						1.60	
Ingram	Ohio	T.					.73		.01	.03		T.			.07	.53			.12		T.		T.		.01	T.	.06	.04					2.05	
Irwin	Youghiogheny	T.				1.17		T.	T.							.67			.11				T.	T.		.05	.05						1.36	
Johnstown	Conemaugh	.06	.05			.52		.02	.03			T.			.01	.24			.04	.01	.03	.01	T.		.11	.02	.02	.14	.04				2.06	
Ketner	Allegheny	.08	.18			.32		.17	.08			.10				.56	.05		.08		.06	T.	.05		.19	.04	.04	.03	.03				2.01	
Linesville	Beaver			.10		.42			.34			.17				.10	.03		.05				.10		.40	.20		.10					0.81	
Lock No. 4	Monongahela	T.		T.			.17						T.			.34	.08			.14	T.		T.			T.	.02	.06	T.				1.55	
Lycippus	Conemaugh	.09				.52										.54			.07	T.		T.			.09	.08		.10					1.68	
New Castle	Beaver		.02	.01		.53	.05	.08	.04			.09	.02	.05		.57	.01		.03	.03	.05	.01	T.		T.		.09	.05					0.74	
Newell	Monongahela					.15				T.					.06	.29			.16				T.				.06	.02	T.				2.41	
North Shenango	Beaver		.17			.53	.24	.05	.34			.07				.63					.13		.10	T.		.10	.03	.02	T.				2.08	
Parkers Landing	Allegheny	T.	.04			.30	.35		.22			T.	.03			.62	T.			.18	T.	.04	T.		.20	.10	.05	.05	T.				2.62	
Pennline	Beaver	T.	.23			.60	.10	.05	.30	.12			.08			.54	.03			.05	.04	.07	.09		.1	.09	.11	.07		.05			1.31	
Pittsburgh**	Ohio	T.		T.		.67		T.	T.				T.			.42			.08		.05	.04	.07	T.	T.	T.	.01	.02	.03	.04			1.66	
Ridgway	Allegheny		.27			.33		.14				.12				.45								.35									1.93	
Saltsburg	Conemaugh		.06			T.	.71		.03			T.	T.			.53	.24			.10	T.		T.		.08	.03	.05	.07	.03				4.52	
Saegertown	Allegheny	.03	.29	.06		.71		1.00	.15			.16				.63	.05		.05		.15	T.	.05	.25	.10	.60	.14	.05	.05				1.66	
Sharon	Beaver	T.	.03	T.		.32	.18	.08	.17			T.	.06			.60			T.	.10		T.			.02	T.	.06	.04					1.66	
Somerset	Youghiogheny	.15				.22			.05					T.	.55			.10		T.	T.	T.		.18	.15	.20	.06						1.78	
Springdale	Allegheny	.01	.02	T.		.20	.52		.03			T.	.01			.63	.10			.12		.01	.01	T.		.01	.01	.03	.07	T.			1.14	
Stoyestown	Youghiogheny	.03	.04			.20	.01	T.	.06							.34			.08		.02	T.	.01		.15	.03	.02	.03	.12				2.51	
Summit	Beaver		.30			.60	*	.45								.45			.19						.23	.15	.07	.07					2.77	
Tionesta	Allegheny		.24			.77			.28			.09				.60			.11		.08	.15				.25	.16		.04					
Turnerville	Beaver																																	
Uniontown	Monongahela	.01	T.			.07		T.	T.					.01	.68			.14		.03		T.		.03	T.	T.	.08	.11					1.16	
Unity Reservoir	Youghiogheny	.04	T.	T.		.57			.04							.42			.12	.04	T.		T.		.07	.05	T.	.04	.03				1.42	
Vandergrift	Conemaugh		.50			.65						.40				.70			.09			T.	T.		.04		.05	.04					2.47	
Warren	Allegheny		.26			.38		.20				.08				.52			.16				.12	.18	.36	.10	.16	.06	.07				2.65	
Washington	Ohio	T.				.10			.03			T.			.02	.43			.12		T.		.01		.02	.01	.01	.01	.03				0.79	
Waynesburg	Monongahela																																	
Westford	Beaver		.10			.58			.48							.62												.10	.10					2.11
West Newton	Youghiogheny	T.	T.			T.	.33		T.							.40	.05		T.	.05		.08	.05	T.				.05	.05				0.93	
Lake Drainage.																																		
Erie**	Lake Erie		.30	.08			.66		.79			T.	.09		.28	.21	T.		T.		.05	.12	.01	.26	.01	T.	.07	.02	T.		.04			2.99
West Bingham	Genesee		.20	T.	T.		*		.25							.28								.10	.10	.05	T.	T.		.05				1.08

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. || Post Office address:—Greensburg

Daily Temperatures for November, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Allentown.....	Maximum...	59	59	55	57	61	59	59	57	52	54	61	64	57	58	57	50	51	52	62	53	41	39	46	43	37	36	39	41	46	52	.....	51.9
	Minimum...	32	33	39	48	39	40	44	41	33	30	34	35	30	37	40	31	32	40	42	38	32	32	35	31	28	29	25	29	30	33	.....	34.7
Altoona.....	Maximum...	60	61	58	53	64	53	59	47	44	57	62	58	59	56	58	44	63	53	63	53	36	34	50	49	30	28	29	31	41	53	.....	50.2
	Minimum...	32	37	51	50	37	41	43	32	39	31	33	50	33	39	46	35	31	42	40	38	30	27	29	30	25	23	24	27	23	30	.....	34.9
Catawissa.....	Maximum...	60	56	64	56	68	54	62	44	52	58	65	62	60	57	53	54	59	56	65	51	40	40	51	46	38	41	35	45	47	54	.....	53.1
	Minimum...	27	28	34	44	44	38	38	31	35	25	25	50	28	25	38	36	24	37	35	40	34	29	32	33	27	25	29	23	29	24	.....	32.2
Chambersburg.....	Maximum...	63	63	67	60	66	56	65	54	54	57	62	72	60	60	57	51	59	53	65	51	43	44	57	53	34	39	33	38	45	57	.....	54.6
	Minimum...	30	32	47	44	48	34	43	29	43	24	24	41	37	35	45	39	25	29	36	35	33	25	28	33	30	28	28	25	26	24	.....	33.3
Emporium.....	Maximum...	48	58	53	51	58	52	58	42	45	55	58	58	54	59	59	42	59	56	56	51	38	36	48	40	31	31	32	35	38	46	.....	48.2
	Minimum...	26	29	49	49	35	39	30	27	33	31	26	47	29	33	42	30	25	34	34	35	32	30	33	31	27	24	29	29	28	26	.....	32.4
Erie.....	Maximum...	60	65	56	53	61	62	56	47	45	53	63	55	52	64	57	43	59	52	57	45	34	38	47	37	30	31	34	33	39	53	.....	49.4
	Minimum...	35	48	51	48	43	51	44	37	39	39	44	41	34	51	42	38	39	47	45	34	30	32	29	26	27	27	30	25	35	38	.....	38.0
Grove City.....	Maximum...	65	66	58	55	62	58	58	50	46	56	60	62	59	65	62	49	60	54	58	55	40	39	50	52	39	34	32	40	38	48	.....	52.3
	Minimum...	31	48	52	49	37	43	35	38	38	33	28	48	34	55	42	35	31	32	36	34	29	28	32	29	26	28	25	27	18	17	.....	34.6
Harrisburg.....	Maximum...	58	56	64	58	62	54	61	53	53	56	60	66	55	55	55	49	56	49	62	50	40	53	44	35	36	34	40	45	56	.....	51.8	
	Minimum...	37	39	50	52	51	45	47	36	40	37	34	50	36	36	47	38	35	38	44	40	40	35	33	32	35	31	30	32	32	31	.....	38.5
Holtwood.....	Maximum...	57	64	66	64	66	64	63	54	57	55	64	69	58	64	67	53	57	57	62	48	48	46	53	48	40	42	46	42	48	50	.....	55.7
	Minimum...	32	34	43	49	47	41	45	45	38	33	34	38	43	36	42	41	32	34	36	41	34	31	33	32	30	28	30	27	28	28	.....	36.2
Indiana.....	Maximum...	68	70	64	55	66	58	58	50	47	55	60	55	64	64	61	45	59	52	61	56	37	35	51	48	43	33	37	33	39	52	.....	52.5
	Minimum...	31	45	52	49	40	43	41	30	39	30	28	51	35	44	44	37	26	35	35	36	30	27	29	30	25	24	25	28	20	25	.....	34.6
Mifflintown.....	Maximum...	62	68	67	60	62	55	69	50	51	63	63	64	63	53	51	47	64	51	68	54	44	41	60	53	37	37	35	41	46	58	.....	54.6
	Minimum...	30	32	48	47	48	40	46	31	44	32	26	47	37	32	44	40	28	32	46	43	35	32	34	35	29	28	28	31	30	35	.....	36.3
Philadelphia.....	Maximum...	61	63	59	59	61	63	61	62	56	56	60	69	59	60	64	52	55	64	65	57	46	42	47	49	39	39	41	44	48	55	.....	54.9
	Minimum...	40	42	48	49	51	47	56	48	40	37	38	48	46	41	50	44	38	42	50	46	37	33	36	38	32	30	31	31	34	36	.....	41.3
Pittsburgh.....	Maximum...	69	69	60	56	66	60	58	50	45	57	62	59	58	64	55	45	60	54	61	47	36	37	52	39	30	32	34	33	42	54	.....	51.5
	Minimum...	36	54	54	51	46	52	44	41	39	35	40	48	43	52	42	39	37	46	45	36	31	30	32	30	26	26	28	30	23	38	.....	39.1
Reading.....	Maximum...	61	61	60	58	63	57	57	55	53	55	62	65	59	59	58	51	56	52	62	53	43	39	49	47	36	36	35	41	45	53	.....	52.7
	Minimum...	33	36	51	51	51	49	51	44	39	35	34	48	39	36	46	38	33	41	47	43	34	33	37	35	31	27	31	30	32	32	.....	38.9
Scranton.....	Maximum...	56	57	55	54	61	55	62	48	45	52	58	59	54	53	55	45	54	59	53	39	36	45	38	34	35	33	37	42	47	.....	49.2	
	Minimum...	34	33	48	51	46	44	47	38	34	34	35	43	32	29	42	35	34	39	44	39	32	29	30	26	25	26	27	30	34	.....	35.6	
Somerset.....	Maximum...	52	70	68	70	68	63	63	45	42	61	62	65	55	64	55	60	62	62	60	50	32	31	55	45	25	27	32	29	41	51	.....	51.8
	Minimum...	25	44	48	46	48	38	41	34	35	34	30	45	41	42	40	30	28	48	41	30	23	20	21	23	20	22	24	18	30	.....	33.0	
State College.....	Maximum...	57	57	58	53	61	54	55	48	46	53	62	58	52	56	55	44	53	54	57	53	36	35	52	48	31	30	34	40	51	.....	49.1	
	Minimum...	27	23	45	48	43	39	35	35	37	30	30	50	33	35	44	34	31	43	39	36	29	26	28	30	23	23	24	24	25	31	.....	33.3
Towanda.....	Maximum...	55	56	59	54	62	52	64	48	44	53	62	59	59	51	47	55	44	55	55	59	44	40	35	47	47	47	47	47	47	47	.....	49.2
	Minimum...	29	26	46	48	42	39	42	27	37	32	26	41	24	21	44	36	30	30	44	39	30	25	27	31	26	19	23	25	29	30	.....	32.3
Uniontown.....	Maximum...	71	72	65	57	70	61	63	50	50	59	53	65	55	67	60	46	59	54	63	55	41	36	53	48	38	35	36	34	44	57	.....	53.9
	Minimum...	35	52	54	51	40	42	46	38	42	26	30	52	44	43	46	39	28	39	45	38	29	23	31	31	25	26	29	29	22	32	.....	36.9
Warren.....	Maximum...	69	63	55	53	67	52	58	43	41	40	58	58	62	64	56	43	56	50	54	50	36	32	46	40	30	27	30	30	33	47	.....	48.1
	Minimum...	25	42	49	48	35	42	35	28	31	30	25	40	26	34	36	30	29	35	42	32	30	29	32	25	24	23	25	26	23	26	.....	31.9
Wellsboro.....	Maximum...	60	60	58	50	60	51	60	40	40	58	62	55	53	54	53	40	57	57	55	42	37	35	47	34	28	32	32	37	45	.....	47.5	
	Minimum...	33	26	38	45	39	37	35	23	27	25	23	37	20	22	37	28	32	30	37	35	28	31	28	23	22	20	23	22	26	.....	28.6	
Williamsport.....	Maximum...	54	58	66	62	63	60	64	57	50	55	52	58	58	57	51	50	56	54	59	45	45	39	54	50	37	37	34	38	43	50	.....	52.0
	Minimum...	29	31	46	50	43	40	43	31	40	30	27	42	31	29	42	38	25	31	39	37	21	29	33	34	27	26	27	24	31	26	.....	33.4

UNIVERSITY OF
FEB 10

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXVII. DECEMBER, 1922. No. 12.

GENERAL SUMMARY.

The month presented no distinctly unusual features, and was quite favorable in almost every respect. The chief point of interest during the month was the restoration of water supply, which had become critically low throughout most of the State during the preceding months. The storms of December furnished much relief, although in most places they were not sufficient to restore normal conditions. In the northwestern part of the State, however, the deficiency in water supply was fairly well made up.

The first real relief began at many stations on the 4th, but the bulk of the rain occurred at most places on the 5th. Several stations recorded more than an inch of rain during the progress of this storm. A second helpful rain came on the 7th and 8th. There were others on the 14th and 17th, though in the mountain districts and the northwestern section of the State, much of the precipitation of these storms took the form of snow. In each of these storms the snowfall ranged from three to eight inches over extensive areas. A fifth storm to aid in replenishing the water supply occurred mainly on the 28th. This gave from about half an inch to more than an inch over most of the State. But little snow resulted from this storm, and the warm weather that preceded it left comparatively little snow unmelted even in the coldest sections.

TEMPERATURE.

The average temperature for the State, as determined from the records of 80 stations was 31.5°, or 0.8° above the December normal. The highest monthly mean was 38.0° at Newell, and the lowest was 24.8° at Montrose. The highest temperature recorded was 69° at Beaver Dam and Greenville on the 8th, and the lowest, 9° below zero, occurred at Hawley on the 30th.

PRECIPITATION.

The average precipitation (rain and melted snow) for the State as determined from the records of 122 stations, was 2.75 inches, or 0.56 inch less than the normal for December. The greatest amount recorded was 4.55 inches at Confluence, and the least, 1.19 inches, at Center Hall. Snow fell in all sections of the State during the month and ranged from a trace at Marcus Hook to 18.1 inches at Corry. The average amount for the State was 7.1 inches. The greatest 24-hour precipitation was 1.64 inches at Johnstown on the 4th and 5th. Ten inches of snow fell at North Shenango on the 14-15th. G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Total move- ment, in miles.	Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.			Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	29.1	284.5	10	72	73	12,442	16.7	53	se.	4
Harrisburg.....	131.4	290.6	45	78	71	4,280	5.8	27	n.	29
Philadelphia.....	107.3	290.6	37	75	67	7,026	9.4	36	ne.	28
Pittsburgh.....	134.4	287.3	47	78	70	8,144	10.9	44	nw.	5
Reading.....	92.0	290.6	31	81	74	4,155	5.6	29	e	28
Scranton.....				85	74	5,320	7.2	34	sw.	5

* For any five-minute period.

COMPARATIVE DATA FOR DECEMBER.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	32.5	62	-10	3.14	5.57	1.44	8	8	15
1889.....	39.6	73	0	2.77	5.05	0.85	11	9	11
1890.....	27.2	59	-11	3.97	9.68	1.72	7	8	16
1891.....	38.4	68	-3	4.09	6.53	2.00	12	9	11
1892.....	27.8	70	-13	1.69	4.37	0.40	7	9	15
1893.....	32.2	70	-7	3.06	6.07	1.41	6	11	14
1894.....	32.4	66	-28	3.95	5.93	2.27	10	9	12
1895.....	34.2	70	-10	3.22	6.55	1.40	10	9	12
1896.....	30.6	67	-13	1.20	2.62	0.40	10	9	12
1897.....	33.0	73	-6	3.95	6.25	1.28	6	8	17
1898.....	29.8	68	-11	2.98	4.79	1.31	10	8	13
1899.....	31.5	73	-11	3.04	6.00	1.18	10	10	11
1900.....	31.2	65	-2	2.08	4.16	0.40	8	9	14
1901.....	29.1	77	-18	5.91	10.26	2.62	7	9	15
1902.....	28.4	68	-12	5.54	8.51	1.97	7	7	17
1903.....	25.4	60	-14	2.66	4.83	0.92	8	9	14
1904.....	25.8	71	-19	2.48	3.71	1.32	7	7	17
1905.....	33.6	65	-5	3.57	5.48	0.95	10	7	14
1906.....	30.8	67	-14	3.97	7.08	1.69	5	5	21
1907.....	33.2	68	-8	4.30	7.89	1.85	7	8	16
1908.....	32.0	74	-2	2.86	4.61	1.26	9	8	14
1909.....	27.0	71	-10	3.39	8.50	1.19	9	8	14
1910.....	24.4	68	-14	2.65	4.41	0.64	8	6	17
1911.....	36.3	70	5	3.27	5.99	0.75	7	5	19
1912.....	34.4	74	-8	3.27	6.48	1.70	9	7	15
1913.....	34.2	66	-7	2.63	4.11	0.69	9	6	15
1914.....	27.3	69	-28	4.63	7.74	2.43	8	5	18
1915.....	29.4	70	-7	4.06	6.53	1.36	6	8	17
1916.....	29.7	73	-12	3.07	6.38	0.59	11	9	11
1917.....	21.5	52	-28	1.78	5.16	0.60	10	8	13
1918.....	36.6	72	-1	3.38	5.74	0.90	9	7	15
1919.....	25.3	66	-23	2.61	4.75	0.95	9	8	14
1920.....	33.4	68	-7	3.28	6.77	1.53	7	9	15
1921.....	31.6	66	-11	2.59	6.25	0.91	8	8	15
1922.....	31.5	69	-9	2.75	4.55	1.19	10	8	13

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	2.0	2.7	31	1.5	9	18
Phillipsburg.....	Delaware.....	0.4	0.7	28	0.1	3	22
Mauch Chunk.....	Lehigh.....	4.0	4.0	1	3.4	7	15
Wilkes-Barre.....	Susquehanna.....	2.9	3.8	12	2.3	20	20
Williamsport.....	Susquehanna.....	2.2	3.1	31	0.1	1	20
Harrisburg.....	Susquehanna.....	3.5	4.2	13	3.2	1	17
Freepport.....	Allegheny.....	4.3	9.3	29	2.6	1	22
West Newton.....	Youghiogheny.....	0.9	3.2	29	0.0	1	20
Lock No. 4.....	Monongahela.....	15.0	23.3	18	12.5	1	20
Pittsburgh.....	Ohio.....	9.1	12.4	29	7.3	1	22
Beaver Dam.....	Ohio.....	8.9	13.6	29	6.4	20	30

Climatological Data for December, 1922.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 0.1 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Allentown	Lehigh	254	10	31.2	.....	55	1	13	18 ¹	32	2.13	-1.72	0.52	.....	12	9	0	22	w.	John A. Frick.
Altoona	Blair	1,615	35	31.4	+2.4	64	8	9	13	34	2.01	-0.34	0.94	12.0	8	14	8	9	w.	Lewis E. Biller.
Arendtsville	Adams	700	3	32.4 ^a	.....	63	1	5 ^a	20	32 ^a	2.96	.....	0.94	4.0	6	13	6	12	w.	R. C. Walton.
Bethlehem	Northampton	295	38	.....	.....	.....	.....	12	19	.....	2.29	-1.21	0.62	.....	9	2	20	9	w.	E. E. McCollm.
Bustleton	Philadelphia	125	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Experiment Station
Carlisle	Cumberland	467	55	31.6	+0.3	58	2	5	20	25	2.74	-0.27	0.92	12.0	9	13	3	15	ne.	Prof. C. E. Miller.
Catawissa	Columbia	520	25	30.2	-1.4	59	1	-1	20	34	1.85	-1.15	0.54	7.8	11	10	7	14	.....	H. H. Yetter.
Center Hall	Center	1,272	26	30.6	+1.6	54	26	2	20	30	1.19	-1.56	0.56	11.2	6	18	8	5	.....	S. W. Smith.
Chambersburg	Franklin	580	22	32.0	-0.9	64	1	4	20	34	2.78	+0.16	1.01	5.6	11	9	10	12	ne.	William B. Spear.
Clearfield	Clearfield	1,120	12	30.8	+2.1	60	8	2	20	33	2.79	-0.30	1.04	2.7	9	15	5	11	nw.	E. W. Hess.
Coatesville	Chester	380	34	30.8	-2.2	55	2	8	20	31	3.41	-0.81	1.24	2.0	13	5	12	14	ne.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	12	30.9	.....	55	2	6	20	27	2.39	-1.33	0.71	7.3	12	10	6	15	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	34	28.6	-0.5	59	8	-4	20	35	3.80	+0.54	0.75	13.5	11	14	5	12	w.	T. B. Lloyd.
Ephrata	Lancaster	380	21	32.7	+1.4	53	1	11	19 ¹	24	2.74	-0.77	0.75	2.5	13	8	9	14	s.	E. K. Hershey.
Everett	Bedford	1,040	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thropp Co.
Freeland	Luzerne	1,970	7	25.0	.....	53	1	-2	19	24	2.49	.....	0.53	13.5	12	9	8	14	sw.	Theo. Reichmann.
George School	Bucks	190	15	32.2	-0.1	59	1	7	30	30	3.27	-0.54	0.82	7.0	14	13	1	17	nw.	Prof. N. W. Swayne.
Gettysburg	Adams	600	48	34.2	+2.5	59	1 ¹	7	20	29	2.91	-0.42	1.01	4.0	8	5	19	7	sw.	Col. E. B. Cope.
Gordon	Schuylkill	840	18	29.6	+1.1	58	2	-3	20	31	1.79	-2.48	0.50	7.0	8	13	4	14	nw.	Capt. J. G. Johnson.
Hamburg	Berks	535	29	30.7	-1.3	56	2	5	20	33	2.82	-1.03	0.82	3.5	12	9	10	12	w.	State Sanatorium.
Hanover	York	600	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	52	32.9	+0.1	59	1	13	19	22	2.41	-0.24	0.68	7.1	14	6	9	16	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	3	27.2	.....	55	1	-9	30	41	3.83	.....	0.70	15.2	8	.....	.....	.....	.....	J. S. Pennell.
Huntingdon	Huntingdon	650	34	31.7 ^a	+0.2	62 ^a	1	1 ^a	20	33 ¹	2.79	-0.29	1.07	7.0	6	17	9	5	.....	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	2	30.4	.....	58	1 ¹	7	21	28	2.79	.....	1.10	15.5	7	22	1	8	.....	C. B. McCullough.
Lancaster	Lancaster	255	34	31.6	-1.8	58	5	7	20	30	3.01	-0.40	1.05	.....	10	14	12	5	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	24	29.4 ¹	+2.0	57 ¹	1	-4 ^c	20	32 ¹	.....	.....	.....	9.0	.....	.....	.....	.....	.....	C. P. Darling.
Lebanon	Lebanon	469	81	30.8	-1.1	55	1	10	11 ¹	33	2.18	-1.44	0.64	5.3	12	15	7	9	e.	S. B. Benzing.
Lewisburg	Union	450	47	29.9	+0.9	61	1	-7	20	39	2.61	-0.65	0.78	11.0	9	8	12	11	w.	Prof. W. G. Owens.
Lykens	Dauphin	680	7	30.6	.....	59	2	-2	20	35	1.64	.....	0.49	5.5	8	12	8	11	nw.	Susquehanna Collieries Co.
Marcus Hook	Delaware	50	2	34.9	.....	63	2	16	19	29	2.79	.....	0.97	T.	12	2	13	16	n	Gen. Chemical Co.
Mauch Chunk	Carbon	600	32	30.2	-0.3	53	1	5	20	24	2.40	-1.84	0.68	6.5	11	8	10	13	w.	R. K. Wintermute.
Mifflintown	Juniata	445	18	32.8	+2.6	68	5	6	20 ¹	31	2.01	-1.07	0.60	8.5	7	6	5	20	w.	Wellington Smith.
Montrose	Susquehanna	1,658	19	24.8	-0.8	53	1	-6	30	37	2.08	-0.62	0.50	12.0	6	12	5	14	s.	Silas Jagger.
Mount Pocono	Monroe	1,720	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	10	27.3	.....	56	1 ¹	-4	19 ¹	30	2.56	-0.46	0.87	12.0	7	12	8	11	w.	A. H. Boatman.
Narberth	Montgomery	300	3	33.4	.....	60	1	13	19	27	3.80	.....	1.27	5.5	15	6	8	17	ne.	Charles Decker.
Neshaminy Falls	Bucks	60	33	30.0	.....	59	1	5	30 ¹	36	3.08	.....	0.60	2.0	13	15	1	15	n	North Springfield Water Co.
Palmerton	Carbon	398	5	30.2	.....	55	2	7	19 ¹	30	1.66	.....	0.39	4.4	14	8	15	8	ne.	F. G. Breyer.
Philadelphia (a)	Philadelphia	117	51	36.1	+0.4	57	1	16	19	24	3.29	+0.25	1.22	2.2	14	4	7	20	ne.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	6	34.8	.....	57	1	16	19	26	3.49	.....	0.80	2.4	9	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville	Chester	100	11	32.4	.....	55	1	12	11 ¹	26	3.78	.....	1.18	.....	10	8	16	7	se.	North Springfield Water Co.
Quakertown	Bucks	496	37	30.0	-1.1	55	1	5	20	33	2.88	-0.66	0.83	4.5	13	9	11	11	nw.	John E. Benner.
Reading	Berks	325	52	33.0	+0.8	54	1	12	19	20	3.18	-0.14	1.11	6.1	13	5	12	14	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	27	30.8	+1.0	55	1	7	19	23	2.31	-0.30	0.73	9.3	13	3	13	15	s.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	32	30.4	-1.0	62	1	-2	20	34	2.77	-0.44	0.88	7.4	8	14	5	12	sw.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	26	33.9	.....	54	1	16	11 ¹	21	2.99	-0.90	0.85	2.5	11	6	12	13	nw.	W. S. Guiles.
State College	Center	1,217	37	29.6	0.0	57	1	3	20	28	2.41	-0.30	0.82	9.0	10	5	13	13	w.	C. A. Kern.
Towanda	Bradford	754	27	28.8	+0.2	58	1	-5	20	33	1.73	-0.64	0.67	6.4	9	4	6	21	s.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	56	25.5	-2.7	55	1	-7	20	37	1.85	-0.75	0.50	11.7	8	21	2	8	sw.	George W. Hill.
West Chester	Chester	455	84	32.4	-0.6	58	1	10	19	28	2.70	-1.39	0.81	1.8	12	9	10	10	se.	Arthur M. Hay.
Williamsport	Lycoming	521	35	30.2	-0.3	58	1	2	20	31	2.71	-0.34	0.65	12.0	9	16	3	12	se.	Jacob April.
York	York	400	34	33.3	+0.5	60	2	8	20	33	1.91	-1.23	0.56	2.2	9	11	13	7	s.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	29	36.0	.....	69	8	7	19	45	1.57	-1.15	0.45	2.7	11	10	4	17	sw.	U. S. Engineer.
Bradford	McKean	1,427	7	28.2	.....	55	1	-2	20 ¹	37	3.13	.....	0.95	13.6	13	8	10	13	sw.	City Engineer.
Bradys Bend	Armstrong	930	4	28.9	.....	61	8	1	19	39	2.85	.....	0.70	5.1	9	8	13	10	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	31	27.4	-0.5	58	8	-1	19	39	4.32	+1.49	0.80	8.0	9	20	6	5	.....	John Fawcett.
Claysville	Washington	1,150	18	34.4	+2.5	63	8	4	19	31	2.89	-0.06	0.70	1.7	12	15	3	13	n.	J. L. Melvin.
Corry	Erie	1,430	10	29.4	.....	60	8	4	14 ¹	30	3.74	.....	1.10	18.1	19	11	6	14	n.	Nevin R. Dickson.
Derry	Westmoreland	1,172	25	34.0	+2.3	63	8	7	19	37	3.84	+0.54	1.15	4.2	12	8	7	16	w.	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	4	30.0	.....	60	8	-5	20	33	3.27	.....	1.10	3.0	6	16	7	8	w.	D. H. Jones.
Elk Lick	Somerset	2,680	5	32.9	.....	59	26	5	12	29	2.43	.....	0.75	9.0	4	6	7	18	w.	J. S. Stevanus.
Franklin	Venango	957	49	30.0	+0.8	62	8	8	19 ¹	38	3.53</									

Daily Precipitation for December, 1922.

Stations	Drainage Basin.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh.		.01			.39			.25	.03	.02		.06		.03	.18		.42							.04				.52	.18			2.13	
Altoona	Juniata					.32		.02	.02						.32	.02		.94					T.						.37				2.01	
Ansonia|||	W. Br. Susq.		T			.29		T	.06	.02					.07	.29		.33	T.						T.				.24	.16	T.		1.39	
Arendtsville	Potomac.					.87			.15			.05			.07			.88											.94				2.96	
Bellefonte	do.		T.			.75									.41	.05		.55											.61				2.37	
Berwick	Lehigh.		.05			.41			.24				.06		.09	.20		.57						.05					.62				2.29	
Bethlehem	Lower Susq.					1.03			.15	.10			.23					.30											1.00				2.81	
Boserville	Lower Del.							.03	.15	.02	.12				.16	T		.92						T										
Bustleton	Lower Susq.		T.		.04		.65		.03	.15	.02	.12			.22	T.		.45							.09				.02	.54			.08	1.85
Carlisle	N. Br. Susq.		T.		T	.06	.29		.07	.02					.22		.01	.45							.03					.13				1.19
Catawissa	Susquehanna		.02					.01							.44			.56												.56	.03			2.78
Center Hall	Potomac.			.06	.01	.89		.05	.06	.02	.05			T	.04			T	1.01						T.					.77		.06		2.79
Chambersburg	W. Br. Susq.		.05			1.04		.03	.54						.16	.06		.08												.56	.02			3.41
Clearfield	Lower Del.		.01	.07		.53		.27	.15		.06		.04		.16	.16		.65											1.18	.06			2.39	
Coatesville	Lower Susq.		T.	.03	.03	.58		.10	.05	.12					.09	.06	T.	.71						.04					.56	.02			3.35	
Colebrook	Juniata			.07		1.00		*	.24	.02			.03	.15				.65						.02	.02					.55	.25	.15		2.39
Cresson|||	Lower Del.		T.	.07		.43		.24	.13		.04				.22	.21		.58											.79	.05			2.83	
Doylstown.	W. Br. Susq.		.55			.10	.40		.35	.32		.20			.40			.60											.40	.70			4.32	
Driftwood.	W. Br. Susq.		.38			.11	.71	T	.10	.31			.05		.75	T		.60											.10	.65		.04	3.80	
Emporium.	Lower Susq.		.02	.04	.54				.15	.22	.02	.02			.12	.14		.64							.06					.75			2.74	
Ephrata.	Juniata																																	
Everett.	N. Br. Susq.																																	
Forest City	Lehigh.		T.	.02		.41			.35	.01			.03		.04	.30		.53	.01						.04				.45	.30	T		2.49	
Freeland	Lower Del.		T	.08	T	.16		.22	.17	T	.07	T	.01		.30	.24		.65					.09	T	.01				.82	.20		.25	3.27	
George School.	Potomac.				.75			.08	.15		.05				.05	.08		1.01												.74			2.91	
Gettysburg	Susquehanna			.02	.12	.25		.11	.08						.14			.51												.06	.52	.03		2.04
Girardville	Lower Susq.		.02			.50		.11					.02		.21			.50												.36			1.79	
Gordon	Lehigh.		.06			.28		.08	.65	.22					.37			.48											.42	.28	.12	.18		3.15
Gouldsboro|||	Schuylkill.			.14				.36	.04		.11				.37			.48												.82				2.52
Graterford	Schuylkill.		.12			.51			.20						.25	.03		.20					.08		.10	.20	.21	.10		.82				2.82
Hamburg.	Lower Susq.																																	
Hanover	do.		.02	T	.18	.27		.19	.07		.12		T		.17	.02	.10	.58						.01					.18	.38		.12	2.41	
Harrisburg***	Upper Del.				T	.33	T		.60	.60					.40			.70	.03											.65		.52		3.83
Hawley|||	Lower Susq.					.57		.15							.18			.60						.02						.83	.04		2.39	
Holtwood|||	Juniata		T		T	1.07		T	.10						.20			.65												.70	.07			2.79
Huntingdon	W. Br. Susq.		.01			.45		T	.35						.40	T		1.10							.07					.41			2.79	
Jersey Shore.	Lower Susq.			.05		.65		.05	.20						.63	.15		.77						.03					1.05	.03			3.01	
Lancaster	Lehigh.			.04		.56			.22	.05		.04			.07	.15		.44							.07					.21	.13		1.98	
Lansford|||	N. Br. Susq.																																	
Lawrenceville.	Lower Susq.		.04		.01	.56		.26	.03	.09			.08		.07		.63	.01						T	T	T			.36	.04			2.18	
Lebanon	W. Br. Susq.				T	.75		.03	.07	T					.33	.01		.60						T		.10		T		.68	.01		2.61	
Lewisburg	W. Br. Susq.		T	.09		.11	.55		.12	.13					.10		.40		.50											.30	.20			2.59
Lloyd	W. Br. Susq.		.01	.02		.57		.37				.01	.01		.54			.57												.36			2.50	
Lock Haven	Susquehanna		T			.49		.09	.08						.12	.02		.48												.35			1.64	
Lykens.	Lower Del.			.01	.11	.38		.13	.07	T	T				.15	.17		.69					.09							.17	.80	.02		2.79
Marcus Hook	Lehigh.		.05		T	.60		.12	.24				.03		.17	.04		.68	T					.05						.38	.02			2.40
Mauch Chunk	Juniata					.54		.03							.22	.03		.60												.56	T			2.01
Mifflintown.	N. Br. Susq.					.30		.40					.13		.50			.25							T					.50			2.08	
Montrose.	Upper Del.																																	
Mount Pocono	Juniata					.85		.12							.25			.65												.62	.08			2.57
Mount Union	W. Br. Susq.					.35		.45	.03						.25	.06		.55												.87			2.56	
Muncy Valley	Lower Del.		T		.06	.56		.24	.11	T	.10	.03			.21	.41		.70					.09	.01		.01	T	1.01	.26				3.80	
Narberth.	Lower Del.				.03	.58	.02		.35	T	.10	.02			.41	.02	.04	.35					.06							.60	.50			3.08
Neshaminy|||	Lehigh.		.05	T	.25	.08	.37		.02	.10		.03			.02	.11	.28		.69											.04	.27		.01	1.66
Palmerton	Lower Del.		T	.07	.07	.38		.24	.09		.07	T	.01	T	.15	.14		.69												.15	1.12	.03		3.29

Daily Precipitation for December, 1922.—Continued from page 47.

Stations.	Drainage Basin.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Elk Lick.....	Youghiogheny					.75			.50										.60													2.43			
Falls Creek.....	Allegheny	.12				.83		.03	.71					.63				.77									.01						3.74		
Franklin.....	Allegheny	.18	.22			.26			.49					.10	.45			.51	.03														3.53		
Freeport.....	Allegheny	T.				.59			.33	.10				T.	.49			.81	.28						T.		.06		.04	.96	.23		2.96		
Greensburg.....	Youghiogheny	.13		T.	.03	.89		.19	.19		T.		.01	.25	T.	T.		.70	T.	T.			T.						T.	.44	.04	T.	2.87		
Greenville.....	Beaver	.04				.03			.48					.30	.20			.75	T.										T.	.18			1.98		
Grove City.....	Beaver	.34				.02		.17	.35						.42	.20	.43									.01			T.	1.02			2.96		
Herr's Isl. Dam.....	Ohio	T.	.02			.40			.15	.01	T.		.01	T.	.10		.54	.05	.01	T.			T.						T.	.35	.23		1.87		
Indiana.....	Conemaugh	.13		.05		.90		.20	.12		T.				.50		.82													.80	.10		3.62		
Ingram.....	Ohio	.01			.05	.33		.13	.01		T.			.01	.11	.01		.56					T.							.01	.75		T.	1.98	
Irwin.....	Youghiogheny	.08			T.	.80		.13	.18				T.		.14	T.		.69	T.	T.										.48	.03		2.55		
Johnstown.....	Conemaugh	.04		.02	.20	1.44		.16	.20		.05		T.		.50	.06		1.04	.02				.03	T.						.01	.74		.02	4.51	
Ketner.....	Allegheny	.30				.65		.10	.35					.03	.65			.54	.05				.03	.03		.03				.55			.03	3.34	
Linesville.....	Beaver																																		
Lock No. 4.....	Monongahela	.02	.04			.45		.16	.40				.02			.12		.53	.06											.36	.38		2.54		
Lycippus.....	Conemaugh	.09			T.	.80		.22	.46	T.	.04				.29	.21		.84													.75	.18		3.88	
New Castle.....	Beaver					.15		.03	.25	.56					.14	.18		.07													.75	.15		2.28	
Newell.....	Monongahela	.06			.46			.15				.50	.01	.02	.15			.60												.20	.29		.13	2.57	
North Shenango.....	Beaver	*	.13			.05			.35						.22	.45		.20	.10											.27	.83		2.60		
Parkers Landing.....	Allegheny	.25		T.		.54			.25	.30			T.		.20	.30		.20	T.											1.00	.30		3.34		
Pennline.....	Beaver	.07	.02			.07							.03	.04	.18	.38		.07	.02	.02			T.		.03					.03	.80	.04		1.84	
Pittsburgh**.....	Ohio	.01			.27	.11		.13	.02		T.		.01		.18	T.	.10	.50	T.	T.			T.							.17	.52	T.	.03	1.98	
Ridgway.....	Allegheny	.30				.43			.35						.50			.59													.67			2.84	
Saltsburg.....	Conemaugh	T.	.10			.74			.24	.07	T.			T.		.43	T.	.53	.15												.35	.30		2.91	
Saegertown.....	Allegheny	.25						.43	.25				T.	.05	.58		.20	.05												.20	1.20		3.21		
Sharon.....	Beaver		.18	T.		.10			.37	T.			T.		.10	.09		.30	.03	T.				.02						.01	.72	.30		2.22	
Somerset.....	Youghiogheny	.05			.11	1.00		.20	.40	T.			.33			1.20							T.								.66	.16		T.	4.11
Springdale.....	Allegheny					.54			.28	.04	T.		.01		.23	T.	.71	T.													.44	.20		2.45	
Stoyestown.....	Conemaugh	.02	.01	.02		1.05		.18	.37	.11	.03		.05		.26	.12		.85	.01				.02								.70	.20		4.00	
Summit.....	Beaver	.10	T.			.15			.15					.02	.14	.32		.13													.74	T.		1.75	
Tionesta.....	Allegheny	.39				.32			.50					.04	.65			.43									.10		*		.97	.04		3.44	
Turnerville.....	Beaver																																		
Uniontown.....	Monongahela	.02			.03	.51		.17	.24		.13		.05		.14	.28		.70						T.						T.	.47	.11		2.85	
Unity Reservoir.....	Youghiogheny	.10		T.	1.01			.17	.24		T.		.03		.21	.10		.75	T.				T.		T.					T.	.61	.11	T.	.01	3.34
Vandergrift.....	Conemaugh					.61		.39	.22					.43	.40		.72														.50			3.27	
Warren.....	Allegheny	.58				.36	.03	.10	.04		.01		.12		.70		.35														.10	.52		2.95	
Washington.....	Ohio	.07			.28	.13		.17	.43				.02		.11	.14	.41														.25	.51		.06	2.58
Waynesburg.....	Monongahela	T.	T.			.45			.21	.35	T.				T.	.17															.95	.34		2.47	
Westford.....	Beaver	.08				.04		T.	.42					.10	T.	.74		T.	T.												1.15	.23		2.76	
West Newton.....	Youghiogheny	.03	.02			.49			.17	.46	T.		T.					.59	.04	T.											.26	.18		2.24	
Lake Drainage.																																			
Erie***.....	Lake Erie	T.			.10	.01	T.	.14	.06		T.	.02	.02	.04	.51	T.		.24	.01	T.				T.	T.	T.				.34	.76	T.		T.	2.25
West Bingham.....	Genesee					.05	T.	.05	.05						.20	.20	.10	.40						T.	T.	.05		T.			.05	.01	.10		1.26

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. †† Post Office address:—Greensburg

Daily Temperatures for December, 1922.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Allentown.....	Maximum	55	46	38	47	53	36	33	41	41	34	36	42	27	35	41	35	37	32	24	33	42	37	38	43	42	42	44	36	31	30	53	38.8
	Minimum	36	27	27	27	29	23	25	32	27	17	19	19	19	24	24	25	27	13	13	16	24	24	24	24	27	30	32	20	17	17	21	23.5
Altoona.....	Maximum	57	56	50	45	48	38	30	64	60	34	31	43	30	27	38	34	34	30	20	28	29	31	40	39	42	57	47	41	34	31	37	39.5
	Minimum	38	29	30	30	36	24	17	30	29	22	15	28	9	11	26	11	25	14	7	12	13	23	26	34	28	28	36	34	18	11	26	23.2
Catawissa.....	Maximum	59	50	46	49	55	38	33	38	44	34	37	43	29	30	40	34	34	30	28	33	37	34	40	40	43	48	46	39	33	35	49	35.6
	Minimum	29	28	21	20	38	25	18	29	30	26	12	20	15	14	30	17	19	21	4	-1	20	11	12	28	23	23	25	35	20	9	22	20.7
Chambersburg.....	Maximum	64	62	49	48	54	44	31	42	45	36	33	50	40	33	46	35	37	34	25	31	37	36	40	46	41	50	41	37	34	35	38	41.1
	Minimum	30	31	28	25	38	27	20	30	34	25	14	30	14	16	31	23	28	20	9	4	8	14	29	17	28	20	28	34	23	14	22	23.0
Emporium.....	Maximum	57	45	49	43	43	35	35	59	43	29	34	43	22	30	45	31	33	33	20	27	27	30	40	39	44	47	42	26	34	42	37.7	
	Minimum	34	28	25	21	35	26	18	35	28	16	10	20	12	10	25	11	21	5	3	-4	-1	10	9	24	26	25	30	30	23	29	24	19.6
Erie.....	Maximum	59	39	47	44	49	28	45	64	34	29	44	45	19	30	31	30	32	26	20	36	34	40	37	48	45	36	31	21	16	15	49	37.5
	Minimum	37	32	34	32	27	24	24	34	24	23	23	17	15	18	18	17	26	13	13	14	27	27	31	35	35	33	31	21	16	15	32	24.8
Grove City.....	Maximum	56	53	53	43	53	43	47	61	53	53	45	43	30	31	34	38	31	32	28	34	32	30	33	44	49	51	44	43	25	35	45	41.5
	Minimum	44	26	26	25	23	21	21	43	23	21	20	19	9	15	17	13	27	5	-1	10	9	24	26	25	30	30	28	24	19	16	28	2
Harrisburg.....	Maximum	59	55	40	45	52	38	32	42	46	35	34	27	28	33	43	34	37	35	24	32	36	36	38	46	43	44	43	38	33	36	41	39.5
	Minimum	38	35	31	29	38	27	25	32	35	23	18	25	19	22	30	28	28	17	13	14	24	21	32	24	30	26	33	30	22	19	27	26.3
Holtwood.....	Maximum	57	49	46	46	55	40	40	49	43	34	42	49	31	42	46	39	35	39	33	40	55	40	43	50	50	53	41	39	47	37	41	43.6
	Minimum	34	34	30	28	32	30	20	27	25	25	15	20	18	18	29	25	28	18	13	12	24	21	32	24	25	32	28	28	19	23	25	24.6
Indiana.....	Maximum	57	57	51	47	52	40	42	62	58	36	36	45	28	35	36	34	36	31	23	34	36	35	48	55	56	57	48	30	38	50	51	43.4
	Minimum	39	28	28	25	33	23	21	40	28	22	20	27	9	13	26	19	27	13	9	12	17	23	24	30	31	35	29	20	16	30	31	24.1
Mifflintown.....	Maximum	62	61	50	49	68	48	35	39	45	38	34	48	33	32	40	40	36	35	26	31	34	34	43	41	44	41	45	41	41	33	38	41.5
	Minimum	31	34	30	33	38	29	20	30	33	28	10	31	16	23	30	24	27	20	10	6	6	13	33	28	25	21	28	34	23	18	24	24.2
Philadelphia.....	Maximum	57	56	42	48	56	43	38	41	47	36	40	46	31	35	45	37	39	38	28	38	46	40	42	48	48	41	45	42	34	32	49	42.2
	Minimum	40	40	45	34	42	24	24	34	36	27	23	30	22	25	35	30	31	23	16	20	37	31	33	34	36	36	32	28	23	20	25	30.0
Pittsburgh.....	Maximum	60	43	53	51	57	33	54	64	37	35	48	48	25	38	37	35	30	24	42	37	34	48	40	54	58	56	47	27	42	52	43.5	
	Minimum	42	31	39	34	32	26	29	37	28	24	27	17	11	25	25	23	30	11	9	20	26	29	29	33	35	42	39	25	22	24	35	27.7
Reading.....	Maximum	54	51	38	46	53	37	33	36	42	34	35	45	31	32	41	35	37	33	24	33	43	38	40	45	44	43	46	41	32	34	45	39.4
	Minimum	43	31	31	32	36	27	22	32	34	22	17	31	19	23	30	26	28	18	12	16	30	24	31	26	29	34	31	28	20	18	26	26.7
Scranton.....	Maximum	55	50	40	46	50	34	35	44	44	28	35	45	28	33	41	31	35	31	23	30	35	34	37	39	45	48	42	38	26	33	44	38.0
	Minimum	43	29	26	30	34	21	34	34	26	18	14	22	16	19	26	16	17	14	7	11	21	18	31	34	33	36	31	25	14	11	25	23.6
Somerset.....	Maximum	55	50	49	45	50	33	47	61	57	37	54	35	40	45	34	34	26	32	33	35	26	30	47	48	52	58	60	46	32	38	42	42.9
	Minimum	40	27	32	28	33	22	20	35	29	22	27	5	14	21	20	25	0	10	12	22	22	23	26	30	32	43	35	31	16	8	32	23.9
State College.....	Maximum	57	54	48	45	43	37	31	50	52	32	31	43	22	30	35	34	35	31	18	27	29	30	40	37	43	54	47	37	29	31	38	37.7
	Minimum	40	29	27	29	33	23	18	29	28	21	13	21	11	14	24	16	24	11	6	3	8	16	27	33	27	26	30	29	17	8	25	21.5
Towanda.....	Maximum	58	57	47	44	48	37	32	45	47	37	35	49	26	29	38	30	30	31	20	28	29	31	37	37	40	51	37	35	26	27	41	37.4
	Minimum	46	25	22	21	34	21	18	32	27	22	9	25	16	15	23	3	22	10	1	-5	10	8	28	33	32	30	33	25	15	4	25	20.3
Uniontown.....	Maximum	60	57	55	51	54	39	53	66	57	35	45	45	27	44	44	37	37	33	19	45	35	36	46	46	48	52	62	51	34	41	54	45.4
	Minimum	45	29	36	23	38	25	26	53	30	22	22	27	12	18	29	24	33	18	10	15	20	30	28	32	32	41	40	34	25	17	29	28.0
Warren.....	Maximum	47	40	41	41	40	29	38	45	38	29	34	34	24	30	32	30	29	25	15	29	29	30	38	38	44	46	37	37	26	30	42	34.5
	Minimum	40	30	26	22	29	23	19	38	23	22	15	17	10	8	15	15	25	10	8	5	24	22	25	34	32	30	28	26	15	5	30	21.6
Wellsboro.....	Maximum	55	53	48	48	42	33	28	43	45	28	30	43	22	25	33	32	30	32	20	-5	25	28	38	35	40	36	35	20	32	36	35.8	
	Minimum	40	23	23	23	19	20	16	23	22	12	9	19	10	9	16	-5	-12	8	-5	-7	-2	17	26	30	29	29	28	19	12	-2	23	15.2
Williamsport.....	Maximum	58	57	45	44	50	47	34	36	40	38	32	48	46	27	37	34	32	34	24	26	28	34	36	37	39	38	40	35	28	29	38.2	
	Minimum	30	31	25	22	35	26	21	28	31	26	14	31	15	17	26	13	26	20	7	2	10	13	30	31	24	22	33	20	9	22	22.3	

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXVII. ANNUAL SUMMARY, 1922. No. 13.

GENERAL SUMMARY.

January was the only one of the winter months that was colder than usual. One exceptionally heavy snowstorm occurred on January 28-29 in the sections east of the mountains, where the highways remained blocked for several days. This snow drifted badly and interfered very seriously with all kinds of traffic even on the principal railroads. For the winter as a whole, the snowfall was a little less than usual; but wheat and rye came through in a satisfactory condition, as the ground was fairly well covered with snow during most periods of prolonged freezing weather.

The spring was not wholly favorable, but much better than in 1921. A decidedly mild period set in about March 25 and lasted until April 1, and another unseasonably warm spell prevailed from April 8 to 18. Vegetation and fruit buds were started a little too early, and considerable injury resulted from frosts and freezing weather that occurred later, especially about April 22. Cherries suffered most, being a total loss in some sections. Peaches were also badly affected.

During the early part of the summer there was an abundance of rain, and some losses resulted from wheat, oats and rye being beaten down by the storms and hay being more or less spoiled by rains at harvest time.

After the 4th of July there was a persistent deficiency in rainfall that became quite injurious to grass lands before the close of the month. The drought became more serious during August and September; in fact, it did not begin to be relieved until October 7, when general rains set in over the entire State. These continued for several days, but were followed by another long period of great deficiency in rainfall extending to the end of November. November was the fifth consecutive month with less than a normal amount of rainfall, and the drought was the most severe experienced in the State since 1909, when the deficiency in rainfall likewise extended through five months beginning with July.

The yield of corn was very much reduced by the dry weather; pastures and meadows were widely ruined, so that it was necessary to feed stock at the barns. Springs and streams went dry, and farmers in many places had to haul water from distant sources. Buckwheat, tobacco, potatoes, celery and other truck and vegetable crops were stunted by the drought. Even apples were adversely affected in both yield and quality. Wheat seedling was not accomplished until long after the customary time, many farmers delaying the work for several weeks in the hope of getting rain to put the soil in a more suitable condition.

Conditions were quite favorable during December, especially with respect to precipitation, which was sufficient to bring much relief from the effects of the prolonged drought, though not enough to restore normal water supply.

G. W. M.

COMPARATIVE ANNUAL DATA FOR THE STATE.

Year.	Temperature.		Precipitation.		Year.	Temperature.		Precipitation.	
	Highest.	Lowest.	Greatest total.	Least total.		Highest.	Lowest.	Greatest total.	Least total.
1888.....	100	-31	.....	.....	1907.....	98	-23	64.05	31.79
1889.....	96	-27	.....	.....	1908.....	104	-29	50.26	26.72
1890.....	101	-18	.....	.....	1909.....	100	-19	48.79	27.91
1891.....	100	-14	64.00	32.21	1910.....	99	-22	51.45	31.08
1892.....	103	-28	54.63	32.07	1911.....	105	-18	67.61	29.25
1893.....	102	-25	58.56	30.62	1912.....	100	-35	60.95	33.08
1894.....	103	-28	57.43	28.17	1913.....	102	-9	56.06	32.48
1895.....	104	-26	40.80	21.17	1914.....	101	-28	54.33	28.83
1896.....	101	-21	53.52	32.29	1915.....	99	-26	61.96	33.40
1897.....	103	-25	55.16	19.83	1916.....	103	-31	58.50	31.05
1898.....	107	-16	56.95	34.07	1917.....	105	-29	62.68	23.56
1899.....	101	-39	51.13	28.36	1918.....	108	-34	60.60	29.97
1900.....	104	-23	55.68	25.73	1919.....	104	-23	58.30	31.55
1901.....	107	-22	56.83	29.81	1920.....	99	-21	58.70	26.27
1902.....	100	-24	65.05	29.79	1921.....	104	-15	62.91	30.08
1903.....	99	-17	57.16	35.90	1922.....	100	-19	50.96	26.27
1904.....	99	-42	56.72	31.05					
1905.....	99	-25	59.38	33.53					
1906.....	99	-21	61.56	32.55					

MONTHLY STATE DATA FOR 1922.

Month.	Temperature.				Precipitation.			
	Mean	Depart- ure from normal.	Highest.	Lowest.	Average.	Depart- ure from normal.	Greatest.	Least.
January.....	25.0	-3.1	62	-19	2.26	-0.93	4.46	1.15
February.....	33.0	+5.5	74	-19	1.99	-0.99	3.61	0.67
March.....	40.0	+2.8	81	-5	4.37	+0.82	6.65	2.30
April.....	50.1	+1.4	91	11	3.17	-0.50	6.10	1.28
May.....	62.5	+2.7	96	20	3.21	-0.54	7.14	1.69
June.....	69.5	+1.9	96	30	5.11	+0.91	12.46	1.78
July.....	71.9	-0.2	98	38	3.68	-0.53	7.58	1.45
August.....	69.1	-1.2	100	31	3.14	-1.03	8.16	1.15
September.....	66.3	+3.0	100	22	1.48	-1.79	3.73	0.17
October.....	54.8	+2.5	94	12	2.51	-0.80	5.60	0.65
November.....	42.9	+2.2	73	12	1.21	-1.46	4.52	0.23
December.....	31.5	+0.8	69	-9	2.75	-0.56	4.56	1.19
Year.....	51.4	+1.5	100	-19	34.88	-7.40	12.46	0.17

KILLING FROSTS OR FREEZING TEMPERATURE.

Stations.	Last in spring.	First in autumn.	Stations.	Last in spring.	First in autumn.
Allentown.....	Apr. 22	Oct. 20	Lawrenceville.....	May 1	Sept. 26
Altoona.....	do. 29	Sept. 26	Lebanon.....	Apr. 25	Oct. 19
Arendtsville.....	May 1	Oct. 19	Lewisburg.....	May 1	do. 19
Beaver Dam.....	Apr. 29	do. 18	Lycippus.....	Apr. 29	do. 13
Bradford.....	May 28	Sept. 25	Lykens.....	May 1	Sept. 26
Bradys Bend.....	do. 8	do. 25	Marcus Hook.....	Apr. 29	Oct. 21
Brookville.....	do. 8	do. 25	Mauch Cbunk.....	May 1	Sept. 26
Bustleton.....	Apr. 29	Oct. 19	Millintown.....	Apr. 25	Oct. 13
Carlisle.....	do. 29	do. 19	Mount Pocono.....	May 1	.....
Catawissa.....	May 1	Sept. 26	Muncy Valley.....	do. 1	Sept. 26
Center Hall.....	Apr. 29	do. 26	Narberth.....	Apr. 29	Oct. 19
Chambersburg.....	do. 29	Oct. 19	Neshaminy Falls.....	do. 29	do. 13
Claysville.....	May 1	.....	New Castle.....	May 1	Sept. 26
Cleatfield.....	do. 1	Sept. 26	Newell.....	do. 1	Oct. 13
Coatesville.....	do. 1	do. 26	Palmerton.....	do. 1	Sept. 26
Colebrook.....	Apr. 29	do. 26	Philadelphia (a).....	Apr. 22	Oct. 21
Corry.....	May 1	do. 25	Phoenixville.....	do. 29	do. 19
Derry.....	do. 1	do. 26	Pittsburg.....	do. 30	do. 13
Ebensburg.....	do. 1	Aug. 21	Quakertown.....	May 1	Sept. 26
Emporium.....	do. 13	Sept. 25	Reading.....	Apr. 22	Oct. 21
Ephrata.....	Apr. 29	Oct. 19	Ridgway.....	May 1	Sept. 26
Erie.....	do. 22	do. 21	Saegerstown.....	do. 8	do. 25
Franklin.....	May 1	Sept. 26	Scranton.....	Apr. 29	Oct. 19
George School.....	do. 1	Oct. 21	Selinsgrove.....	May 3	Sept. 27
Gettysburg.....	do. 1	do. 19	Sbaron.....	Apr. 29	do. 26
Gordon.....	do. 1	Sept. 25	Shawmont.....	do. 23	Oct. 19
Greensburg.....	Apr. 29	Oct. 13	Somerset.....	do. 30	Sept. 25
Greenville.....	May 1	Sept. 26	State College.....	May 1	do. 26
Grove City.....	Apr. 29	do. 26	Towanda.....	do. 1	do. 26
Hamburg.....	May 1	do. 26	Uniontown.....	Apr. 30	Oct. 13
Hanover.....	Apr. 29	Oct. 19	Unity Reservoir.....	do. 29	do. 13
Harrisburg.....	do. 22	Nov. 23	Vandergrift.....	May 1	do. 13
Hawley.....	May 1	Sept. 26	Warren.....	do. 1	Sept. 26
Holtwood.....	Apr. 24	Oct. 21	Washington.....	do. 1	do. 26
Huntingdon.....	May 1	Sept. 26	Wellsboro.....	do. 28	do. 13
Indiana.....	Apr. 30	Oct. 13	West Bingham.....	June 13	Aug. 9
Irwin.....	May 1	do. 13	West Chester.....	Apr. 29	Oct. 19
Johnstown.....	Apr. 29	do. 13	Williamsport.....	May 1	do. 14
Lancaster.....	May 1	Sept. 26	York.....	do. 1	Sept. 26

Climatological Data for the Year 1922.

STATION.	Counties.	Elevation, feet.	Temperature (degrees Fahrenheit).						Precipitation (inches).						Total snowfall (unmelted).	Number days with .01 or more.	Sky.			Prevailing direction of wind.
			Length of record, years.	Annual mean.	Highest.	Date.	Lowest.	Date.	Length of record, years.	Total for the year.	Greatest monthly.	Month.	Least monthly.	Month.			Number clear days.	Number partly cloudy days.	Number cloudy days.	
Atlantic Drainage.																				
Altoona.....	Blair.....	1,615	26	50.8	95	Aug. 17	-8	Jan. 26	35	26.86	3.97	July	1.11	Nov	60.0	122	192	102	71	w.
Carlisle.....	Cumberland.....	467	56	53.5	98	Sept. 6	-5	do. 17	34	32.85	5.46	June	0.86	do.	46.5	103	205	52	108	ne.
Catawissa.....	Columbia.....	520	26	51.3	98	July 12	-7	do. 30	26	36.95	6.56	do.	0.75	do.	56.3	121	185	65	115	.....
Center Hall.....	Center.....	1,272	27	.....	93	do. 12†	-10	do. 26	27	30.79	8.30	do.	0.33	do.	44.4	94	.....	.....	.....	.....
Chambersburg.....	Franklin.....	580	23	52.8	94	do. 12	-3	do. 13†	23	35.09	7.77	do.	0.75	do.	38.6	115	136	126	103	sw.
Clearfield.....	Clearfield.....	1,120	13	51.7	100	Aug. 17†	-7	Feb. 17	13	33.23	5.12	do.	0.45	Sept.	49.9	122	200	79	86	sw.
Coatesville.....	Chester.....	380	35	52.7	95	July 12	-3	do. 17	35	38.00	5.85	July	0.52	Nov	48.7	116	111	158	96	w.
Colebrook.....	Lebanon.....	660	7	51.8	96	Sept. 6	-2	Jan. 26	13	29.20	4.40	do.	0.61	Sept	35.8	133	.....	.....	.....	w.
Emporium.....	Cameron.....	1,050	35	48.1	92	July 12	-14	do. 26	35	37.84	5.75	June	1.06	Nov	36.8	116	157	97	111	w.
Ephrata.....	Lancaster.....	380	22	53.3	92	Sept. 6	-1	Feb. 17	32	31.07	5.91	Mar.	0.83	do.	35.0	100	153	104	108	n.
Freeland.....	Luzerne.....	1,970	3	48.0	92	July 12	-13	do. 17	7	45.05	7.51	June	1.08	do.	68.2	147	120	114	131	sw.
George School.....	Bucks.....	190	16	52.7	93	do. 13	-2	do. 17	16	35.90	7.24	do.	0.68	do.	30.5	133	195	81	89	w.
Gettysburg.....	Adams.....	600	47	54.2	97	do. 12†	0	Jan. 26	49	36.15	6.25	July	0.57	do.	38.4	110	133	138	94	sw.
Gordon.....	Schuylkill.....	840	19	49.8	92	Aug. 17†	-9	do. 26	19	43.07	6.93	June	0.70	do.	59.0	109	184	53	128	w.
Hanover.....	York.....	600	19	54.4	95	July 12	-1	Feb. 17	19	29.38	4.23	do.	0.72	do.	.....	110	188	96	81	s.
Harrisburg.....	Dauphin.....	361	35	53.6	95	Sept. 6	4	Jan. 26†	53	28.20	3.91	July	3.56	do.	34.9	125	108	116	141	w.
Hawley.....	Wayne.....	900	4	48.4	97	July 12	-13	Feb. 17	4	37.46	6.05	June	0.95	do.	.....	89	.....	.....	.....	.....
Holtwood.....	Lancaster.....	200	3	54.0	97	Sept. 6	0	do. 17	7	26.40	4.22	July	0.46	do.	37.0	88	117	139	109	.....
Huntingdon.....	Huntingdon.....	650	35	51.9	97	do. 6	-13	Jan. 17†	35	31.75	4.42	do.	1.08	do.	43.6	115	173	68	124	w.
Lancaster.....	Lancaster.....	255	20	52.5	98	do. 6	-8	Feb. 17	35	26.27	4.09	Mar.	0.42	Sept.	.....	89	198	106	61	w.
Lawrenceville.....	Tioga.....	1,000	25	49.2	95	July 12	-17	Jan. 26	25	.....	.....	.....	.....	.....	50.0	.....	.....	.....	.....	.....
Lebanon.....	Lebanon.....	469	34	53.0	96	Sept. 7	0	Feb. 17	82	35.26	5.29	July	0.80	Nov	31.5	125	192	91	82	sw.
Lewisburg.....	Union.....	450	47	51.8	97	July 12	-11	Jan. 17	48	40.33	7.35	June	0.63	do.	53.7	118	164	87	114	w.
Lykens.....	Dauphin.....	680	8	51.0	97	Sept. 6	-11	do. 26	8	39.45	7.66	do.	0.66	do.	42.0	117	.....	.....	.....	nw.
Marcus Hook.....	Delaware.....	50	3	54.9	98	July 12	3	Feb. 17	3	29.62	4.89	Mar.	0.53	do.	20.4	113	164	131	70	sw.
Mauch Chunk.....	Carbon.....	600	33	51.1	96	do. 12†	-15	do. 17	33	38.78	5.30	June	0.74	do.	43.0	99	155	112	98	w.
Mifflintown.....	Juniata.....	445	19	53.1	99	Aug. 17	-5	Jan. 17†	19	33.75	6.49	do.	0.71	do.	37.3	109	145	69	151	w.
Montrose.....	Susquehanna.....	1,658	20	.....	91	do. 16	-18	Feb. 17	19	37.90	11.58	do.	1.07	do.	49.0	87	185	60	120	s.
Muncy Valley.....	Sullivan.....	1,045	11	48.2	92	July 12†	-15	Jan. 24	11	42.18	10.51	do.	0.95	do.	39.5	110	139	133	93	sw.
Narberth.....	Montgomery.....	300	3	53.8	93	do. 12†	-1	Feb. 17	4	34.22	6.18	do.	0.54	†	28.0	135	131	94	140	nw.
Neshaminy Falls.....	Bucks.....	60	8	52.2	93	do. 12†	-4	do. 17	8	.....	6.79	do.	0.23	Nov	21.0	.....	.....	.....	.....	.....
Palmerton.....	Carbon.....	398	4	50.9	96	Aug. 17	-4	Jan. 26†	6	31.83	5.72	May	0.61	do.	27.9	108	192	86	87	sw.
Philadelphia (a).....	Philadelphia.....	117	51	55.7	94	July 12	4	Feb. 17	51	29.31	4.56	June	0.43	do.	24.3	123	96	109	160	sw.
Philadelphia (d).....	Philadelphia.....	12	7	55.1	94	do. 12	4	do. 17	7	35.08	6.27	do.	0.63	do.	25.7	99	.....	.....	.....	.....
Phoenixville.....	Chester.....	100	12	53.4	95	Sept. 6	0	do. 17	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	nw.
Quakertown.....	Bucks.....	496	36	51.0	94	July 12	-5	Jan. 17	38	38.11	6.66	June	0.51	Nov	36.5	121	146	107	112	nw.
Reading.....	Berks.....	325	45	53.7	94	Sept. 6	2	Feb. 17	53	36.16	7.23	do.	0.55	do.	38.1	130	116	127	122	nw.
Scranton.....	Lackawanna.....	805	27	50.6	95	July 12	-7	do. 17	28	35.08	7.06	do.	0.76	do.	34.1	121	83	133	149	sw.
Selinsgrove.....	Snyder.....	455	33	51.4	94	do. 12†	-6	Jan. 17	34	41.69	6.77	do.	0.75	do.	38.2	104	163	110	92	w.
Shawmont.....	Philadelphia.....	51	6	54.9	93	do. 12	2	Feb. 17	27	32.84	5.83	Aug.	0.37	do.	23.5	103	.....	.....	.....	nw.
State College.....	Center.....	1,217	35	49.2	92	do. 12†	-9	Jan. 26	38	31.82	3.81	May	0.61	do.	43.5	111	140	137	88	w.
Towanda.....	Bradford.....	754	28	48.9	94	do. 12	-14	do. 26	28	31.87	8.05	June	0.64	do.	41.2	110	126	97	142	nw.
Wellsboro.....	Tioga.....	1,419	43	46.6	92	do. 12	-19	do. 26	58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	sw.
West Chester.....	Chester.....	455	68	52.8	92	do. 12	-2	Feb. 17	90	35.26	6.29	June	0.40	Nov	38.3	115	.....	.....	.....	nw.
Williamsport.....	Lycoming.....	521	33	52.0	96	Aug. 17	-8	Jan. 26	36	37.85	6.94	do.	0.77	do.	41.6	115	209	49	107	se.
York.....	York.....	400	23	53.8	97	Sept. 6	-12	Feb. 17	35	26.58	4.20	do.	0.60	Sept.	41.7	103	167	110	88	n.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	9	54.6	96	May 25†	1	Jan. 25	30	29.46	4.35	Apr.	1.34	Feb.	27.1	140	109	80	176	sw.
Bradford.....	McKean.....	1,427	6	48.1	93	July 11†	-16	do. 26	8	41.88	8.41	June	1.15	Sept.	49.2	135	147	87	131	sw.
Bradys Bend.....	Armstrong.....	930	5	48.5	96	do. 12	-11	do. 25†	5	30.03	4.54	Mar.	1.29	do.	31.7	131	152	99	114	.....
Brookville.....	Jefferson.....	1,173	12	47.2	94	do. 11†	-15	do. 25	32	32.15	5.28	do.	0.58	do.	.....	92	.....	.....	.....	.....
Claysville.....	Washington.....	1,150	19	.....	97	do. 12†	-4	Feb. 17	19	33.13	5.05	do.	0.97	Nov	18.8	125	180	60	125	n.
Corry.....	Erie.....	1,430	11	47.7	93	Aug. 17	-11	Jan. 26	11	39.47	5.49	do.	1.40	Sept.	71.0	163	178	79	108	.....
Derry.....	Westmoreland.....	1,172	26	.....	98	July 12	-9	Feb. 17	26	36.78	4.63	do.	1.19	do.	42.0	115	169	94	102	w.
Ebensburg.....	Cambria.....	2,000	5	48.6	90	do. 12†	-19	do. 17	5	35.36	4.82	July	0.92	do.	.....	119	197	89	79	w.
Franklin.....	Venango.....	957	29	49.9	96	Aug. 17	-10	Jan. 26	50	38.95	4.86	Mar.	1.77	Jan.	37.4	138	.....	.....	.....	w.
Greensburg.....	Westmoreland.....	1,150	15	53.1	94	July 12†	-3	Feb. 17	15	36.26	5.37	do.	1.47	Sept.	37.5	133	150	103	112	n.
Greenville.....	Mercer.....	950	27	50.3	98	Aug. 16	-12	Jan. 25	27	30.62	4.27	do.	1.70	Jan.	.....	103	.....	.....	.....	.....
Grove City.....	Mercer.....	1,256	16	50.7	93	July 12†	-11	do. 25	16	35.15	5.30	do.	1.54	Oct.	30.0	129	141	72	152	nw.
Indiana.....	Indiana.....	1,350	26	52.6	97	do. 12	-7	Feb. 17	25	39.45	4.96	do.	0.62	Sept.	34.0	119	176	92	97	n.
Irwin.....	Westmoreland.....	884	23	.....	.....	.....	-7	do. 17	26	34.11	5.52	June	0.50	do.	13.2	112	.....		

Monthly and Annual Precipitation for the Year 1922, with Departures from the Normal.

STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
DELAWARE BASIN.																										
Allentown.....	2.18	-1.36	1.66	-1.50	4.60	+0.80	3.23	-0.54	4.33	+0.69	4.57	+1.31	4.08	-1.03	4.24	-0.12	1.87	-1.57	1.47	-1.94	0.47	-1.93	2.13	-1.72	34.83	-8.91
Bethlehem.....	2.72	-0.79	2.64	-0.86	4.31	+0.63	2.53	.....	3.63	-0.11	5.34	+1.10	.....	.....	2.60	-1.70	1.96	-1.43	1.60	-1.63	0.53	-2.58	2.29	-1.21	.....	.....
Bustleton.....	.....	.....	.....	.....	3.51	.....	2.53	.....	2.56	.....	6.75	.....	4.32	.....	7.43	.....	2.07	.....	0.79	.....	0.77	.....	.....	.....	.....	.....
Coatesville.....	4.46	+0.45	2.85	-1.28	5.16	+0.87	2.20	-1.42	4.34	+0.26	4.16	+0.12	5.85	+0.96	3.27	-1.10	0.75	-3.15	1.03	-2.49	0.52	-2.67	3.41	-0.81	38.00	-10.26
Doylestown.....	2.85	-0.86	2.50	-1.41	3.80	+0.29	2.49	-1.49	3.30	-0.77	5.56	+1.56	4.85	+0.20	3.37	-2.11	0.92	-3.03	0.66	-3.32	0.67	-2.63	2.83	-1.19	33.80	-14.76
Freeland.....	2.86	.....	2.93	.....	5.67	.....	3.64	.....	4.60	.....	7.51	.....	4.09	.....	3.98	.....	2.59	.....	3.81	.....	1.08	.....	.....	.....	45.05	.....
George School.....	2.19	-0.66	1.73	-1.14	3.95	+0.62	0.99	-1.55	2.76	-0.78	7.24	+4.08	3.59	-0.23	5.19	+0.81	1.97	-1.05	1.04	-2.21	0.68	-2.03	3.27	-0.54	35.90	-4.68
Gouldsboro.....	2.90	-0.34	2.56	-1.16	4.15	+0.89	4.33	-0.37	4.50	+0.45	7.70	+2.97	4.49	-1.18	5.14	-0.04	2.11	-1.21	4.98	+1.53	0.82	-2.01	3.15	+0.04	46.83	-0.43
Graterford.....	3.54	.....	2.48	.....	4.43	.....	2.53	.....	2.10	.....	4.65	.....	3.21	.....	2.13	.....	1.00	.....	0.69	.....	0.70	.....	2.52	.....	29.98	.....
Hamburg.....	.....	.....	2.87	-0.57	.....	.....	2.74	-1.59	4.53	-0.08	3.96	-0.24	4.80	-0.19	8.16	+2.33	1.70	-2.50	1.91	-2.15	0.62	-2.24	2.82	-1.03	.....	.....
Hawley.....	2.12	.....	1.15	.....	4.96	.....	3.51	.....	3.18	.....	6.05	.....	4.67	.....	2.91	.....	1.08	.....	3.05	.....	0.95	.....	3.83	.....	37.46	.....
Kennett Square.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.82	-2.57	.....	.....	.....	.....	.....	.....
Lansford.....	1.85	-1.80	2.36	-0.76	4.80	+1.32	2.79	-0.88	4.93	+1.71	6.22	+2.04	2.22	-2.22	2.39	-2.81	1.29	-2.53	3.52	-0.82	0.67	-1.64	1.98	-1.70	35.02	-10.09
Marcus Hook.....	2.27	.....	3.01	.....	4.89	.....	1.55	.....	3.32	.....	4.25	.....	1.75	.....	3.48	.....	1.05	.....	0.73	.....	0.53	.....	2.79	.....	29.62	.....
Mauch Chunk.....	2.66	-1.20	2.70	-1.23	5.29	+0.90	3.10	-0.83	5.02	+0.97	5.30	+1.10	3.65	-1.38	1.43	-3.57	1.45	-2.42	5.04	+1.28	0.74	-2.59	2.40	-1.84	38.78	-10.81
Mouut Pocono.....	.....	.....	.....	.....	5.51	+1.84	1.92	-2.24	4.33	+0.67	8.73	+3.87	3.50	-1.14	3.59	-0.79	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Narberth.....	3.14	.....	2.28	.....	4.96	.....	2.41	.....	3.37	.....	6.18	.....	2.57	.....	3.71	.....	0.72	.....	0.54	.....	0.54	.....	3.80	.....	34.22	.....
Neshaminy Falls.....	1.63	.....	0.67	.....	.....	.....	2.35	.....	3.96	.....	6.79	.....	3.46	.....	4.88	.....	1.98	.....	0.65	.....	0.23	.....	3.08	.....	.....	.....
Palmerton.....	1.74	.....	2.20	.....	4.47	.....	2.46	.....	5.72	.....	5.11	.....	1.50	.....	3.06	.....	0.71	.....	2.59	.....	0.61	.....	1.66	.....	31.83	.....
Philadelphia (a).....	3.16	-0.25	2.62	-0.76	4.34	+0.89	1.52	-1.39	2.47	-0.73	4.56	+1.26	2.42	-1.91	2.56	-2.05	1.23	-2.15	0.71	-2.39	0.43	-2.63	3.29	+0.25	29.31	-11.86
Philadelphia (d).....	3.13	.....	3.04	.....	3.89	.....	2.83	.....	2.83	.....	6.27	.....	3.04	.....	2.21	.....	3.13	.....	0.68	.....	0.63	.....	3.40	.....	35.08	.....
Phoenixville.....	1.91	.....	.....	.....	5.61	.....	2.53	.....	2.16	.....	6.45	.....	4.73	.....	3.08	.....	0.88	.....	1.10	.....	0.55	.....	3.78	.....	.....	.....
Pottstown.....	2.58	-0.92	2.51	-1.05	4.17	+0.36	2.07	-1.13	3.90	-0.58	4.25	+0.34	4.96	-0.46	4.27	+0.38	1.19	-2.14	1.03	-2.06	0.48	-2.74	3.34	-0.33	34.75	-10.33
Pottsville.....	2.48	-1.51	3.14	-0.41	5.08	+1.00	2.86	-0.77	6.03	+1.59	4.51	+0.22	4.10	-0.88	3.10	-2.25	1.20	-2.70	4.45	+0.42	0.79	-2.50	2.33	-1.71	40.07	-9.50
Quakertown.....	3.00	-0.50	2.99	-0.78	4.24	+0.54	3.73	+0.54	3.31	-0.76	6.66	+2.97	5.74	+1.01	2.40	-1.80	1.83	-1.83	0.82	-2.55	0.51	-2.65	2.88	-0.66	38.11	-6.47
Reading.....	2.16	-1.36	2.69	-0.81	4.11	+0.57	1.88	-1.34	3.23	-0.14	7.23	+3.56	3.58	-0.64	5.21	+0.73	1.16	-2.49	1.18	-2.08	0.55	-2.57	3.18	-0.14	36.16	-6.71
Sadsburyville.....	3.91	.....	2.32	.....	4.34	.....	2.26	.....	4.09	.....	6.37	.....	2.69	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Shawmont.....	2.72	-0.57	2.57	-0.68	3.95	+0.29	1.93	-1.24	2.76	-0.65	5.66	+2.24	2.13	-2.13	5.83	+0.81	0.84	-2.39	1.09	-2.25	0.37	-2.51	2.99	-0.90	32.84	-9.98
Stroudsburg.....	2.67	.....	2.14	.....	6.19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
West Chester.....	2.75	-1.00	2.71	-1.13	4.31	+0.37	1.87	-1.75	3.33	-1.10	6.29	+2.14	3.69	-0.91	4.85	+1.55	0.80	-3.12	1.56	-2.18	0.40	-3.23	2.70	-1.39	35.26	-11.75
White Haven.....	2.15	-0.69	2.68	-0.16	4.83	+1.69	3.33	+0.19	3.59	-0.29	9.22	+4.90	2.00	-2.82	2.60	-1.62	2.17	-0.35	4.80	+1.37	0.70	-2.53	2.16	-1.35	40.23	-1.66
Altoona.....	1.88	-0.65	1.86	-0.27	2.96	+0.19	3.34	+0.56	1.69	-2.28	2.53	-1.34	3.97	+0.75	1.50	-1.79	1.41	-0.37	2.60	+0.11	1.11	-0.80	2.01	-0.34	26.86	-7.23
Ansonia.....	.....	.....	0.96	-1.11	3.00	+0.75	3.04	-0.72	3.03	-0.70	5.20	+1.20	2.41	-0.63	5.43	+1.80	2.60	-0.79	3.30	+0.09	0.63	-1.14	1.39	-0.49	.....	.....
Bellefonte.....	2.92	-0.01	1.09	-1.41	2.97	-0.88	3.64	+0.15	2.29	-1.41	5.75	+0.75	2.83	-1.36	3.07	-1.03	1.33	-1.96	2.26	-0.86	0.34	-1.82	3.27	-0.53	31.58	-10.37
Blosserville.....	1.25	.....	1.49	.....	6.20	.....	2.31	.....	4.39	.....	8.13	.....	4.37	.....	1.77	.....	0.93	.....	2.71	.....	0.95	.....	2.81	.....	36.41	.....
Carlisle.....	2.82	-0.32	2.01	-0.92	4.00	+0.44	2.00	-1.33	3.79	-0.05	5.46	+1.55	3.31	-0.48	3.23	-1.53	1.11	-2.51	1.52	-1.74	0.86	-2.33	2.74	-0.27	32.85	-9.49
Catawissa.....	3.57	+0.20	2.32	-0.38	3.79	+0.78	3.99	+0.56	3.86	+0.19	6.56	+2.64	3.30	-0.48	3.04	-1.02	1.09	-2.31	2.70	-0.40	0.75	-1.96	1.85	-1.15	36.95	-4.86
Cedar Run.....	.....	.....	1.40	.....	3.32	.....	3.79	.....	3.39	.....	5.79	.....	1.84	.....	3.29	.....	1.99	.....	2.77	.....	0.84	.....	2.50	.....	.....	.....
Center Hall.....	2.27	-0.39	1.21	-1.14	3.80	+0.47	2.35	-0.80	2.32	-1.35	8.30	+4.21	3.44	-0.53	2.70	-1.29	0.58	-2.41	2.30	-0.75	0.33	-1.69	1.19	-1.56	30.79	-7.23
Clearfield.....	2.19	-2.08	1.60	-1.37	3.71	+0.05	3.45	+0.06	2.45	-2.25	5.12	+0.13	4.63	+1.09	2.94	-1.94	0.45	-3.33	2.75	-0.57	1.15	-1.69	2.79	-0.30	33.23	-12.20
Colebrook.....	2.60	-0.81	2.44	-0.44	4.26	+0.46	2.14	-2.06	3.18	-0.03	3.02	-1.07	4.40	+0.36	1.15	-3.22	0.61	-2.81	2.15	-0.82	0.86	-1.76	2.39	-1.33	29.20	-13.55
Draftwood.....	1.54	.....	.....	.....	2.47	.....	3.96	.....	3.04	.....	5.17	.....	3.12	.....	2.49	.....	1.62	.....	2.80	.....	1.49	.....	4.32	.....	.....	.....
Emporium.....	2.13	-1.47	1.99	-1.06	3.98	+0.24	3.74	+0.39	3.39	-1.05	5.75	+1.26	1.97	-2.47	4.77	+0.80	1.81	-2.63	3.45	+0.15	1.06	-1.65	3.80	+0.54	37.84	-6.95
Ephrata.....	2.37	-0.62	2.29	-0.89	5.91	+2.51	1.48	-2.07	2.58	-0.95	3.77	-0.47	4.39	+0.01	2.18	-2.72	0.90	-2.58	1.63	-1.54	0.83	-1.56	2.74	-0.77	31.07	-11.65
Everett.....	.....	.....	2.78	-0.59	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Forest City.....	1.89	.....	1.37	.....	4.26	.....	3.79	.....	3.70	.....	12.46	.....	5.07	.....	5.06	.....	0.90	.....	3.05	.....	1.12	.....	2.40	.....	45.07	.....
Gettysburg.....	2.42	-0.74	1.91	-0.89	5.05	+1.59	1.79	-1.78	3.91	-0.02	4.66	+1.00	6.25	+2.69	2.18	-1.80	1.35	-2.02	2.85	-0.35	0.57	-2.10	2.91	-0.42	36.15	-4.54
Harbardsville.....	2.59	-1.80	3.00	-1.04	6.65	+2.23	4.30	+0.14	7.14	+2.47	8.85	+4.08	5.55	-0.03	4.16	-1.15	1.70	-2.61	4.20	-0.01	0.78	-2.67	2.04	-2.39	50.96	-2.78
Gordon.....	3.37	-0.83	2.41	-1.02	5.06	+0.80	2.56	-2.27	5.28	+1.48	6.93	+2.60	4.79	-0.29	3.75	-1.12	1.08	-3.38	5.35	+0.97	0.70	-2.09	1.79	-2.48	43.07	-7.63
Hanover.....	2.36	-1.01	1.72	-1.01	3.46	+0.27	1.77	-1.41	3.12	-0.04	4.23	+0.51	4.13	-0.17	3.32	-1.45	0.42	-2.43	1.45	-1.41	0.72	-1.21	2.66	-0.72	29.38	-10.

Monthly and Annual Precipitation for the Year 1922, with Departures from the Normal.—Continued.

STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.		
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	
Elk Lick	2.98	.....	2.73	.....	4.54	.....	3.10	.....	3.43	.....	5.81	.....	2.25	.....	3.24	.....	1.46	.....	2.93	.....	1.74	.....	2.43	.....	.....	.....
Falls Creek	1.75	.....	1.84	.....	4.98	.....	4.08	.....	3.25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.74	.....	36.47	.....
Foxburg	.....	.....	1.57	.....	.....	.....	3.34	.....	2.04	.....	2.99	.....	4.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Franklin	1.77	-1.92	2.08	-0.87	4.86	+1.38	3.45	+0.47	3.27	-0.19	4.04	-0.51	4.04	-0.52	3.46	-0.31	2.17	-1.32	2.47	-0.64	3.81	+0.80	3.53	+0.21	38.95	-3.42	
Freeport	1.69	-2.22	2.21	-1.01	4.85	+1.17	5.43	+2.10	2.89	-0.96	4.65	+0.42	4.26	+0.04	1.88	-1.77	1.70	-1.17	2.93	+0.04	1.72	-1.17	2.96	-0.42	37.17	-4.95	
Greensburg	2.28	-1.67	2.23	-0.72	5.37	+2.04	3.86	+0.25	3.69	-0.14	3.36	-0.53	3.40	-0.36	3.46	-0.56	1.47	-1.73	2.53	-0.60	1.74	-0.22	2.87	-0.28	36.26	-4.52	
Greenville	1.70	-2.12	1.90	-0.73	4.27	+0.55	3.77	+0.54	2.45	-1.01	2.04	-2.21	3.81	-0.64	2.77	-0.96	1.76	-1.46	1.72	-1.93	2.45	-0.25	1.98	-1.01	30.62	-11.23	
Grove City	1.72	-2.05	1.82	-0.62	5.30	+2.14	3.85	-0.26	3.27	-0.58	2.64	-1.31	4.97	+0.52	2.56	-1.02	2.05	-1.03	1.54	-2.04	2.47	+0.33	2.96	+0.11	35.15	-5.81	
Herr's Island Dam	1.82	-1.23	1.97	-0.41	4.62	+1.12	6.10	+3.03	2.91	+0.09	2.85	-1.33	3.50	+0.03	2.60	-0.82	1.52	-0.84	1.70	-1.01	1.52	-0.25	1.87	-0.94	32.98	-2.56	
Indiana	2.03	-2.04	2.49	-0.48	4.96	+0.89	4.30	+0.28	4.53	+0.26	3.91	-0.83	4.47	+0.02	3.62	-0.73	0.62	-3.26	2.56	-1.06	2.34	-0.36	3.62	+0.13	39.45	-6.18	
Ingram	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Irwin	1.31	-1.81	2.11	-0.19	5.35	+1.67	3.34	-0.02	2.72	-0.53	5.52	+1.00	3.50	-0.68	1.93	-2.01	0.50	-2.27	3.23	+0.40	2.05	-0.21	2.55	-0.40	34.11	-5.05	
Johnstown	2.71	-1.65	3.02	-0.78	5.31	+1.20	4.47	+0.50	2.73	-1.89	3.15	-2.01	2.75	-1.60	2.20	-2.29	1.23	-2.27	2.24	-0.75	1.36	-1.56	4.51	+0.86	35.68	-12.24	
Ketner	1.74	.....	1.96	.....	4.16	.....	3.15	.....	2.75	.....	4.53	.....	3.39	.....	4.35	.....	0.94	.....	3.15	.....	2.06	.....	4.51	.....	.....	.....
Linesville	2.10	.....	1.61	.....	4.56	.....	2.29	.....	2.93	.....	4.00	.....	5.88	.....	1.75	.....	1.82	.....	1.28	.....	2.01	.....	4.56	.....	.....	.....
Lock No. 4	1.74	-1.49	1.61	-1.18	5.69	+2.31	3.98	+0.79	2.44	-1.25	4.39	+0.51	1.82	-2.50	2.16	-1.32	1.65	-1.17	2.44	-0.32	0.81	-1.59	2.54	-0.35	31.27	-7.56	
Lycippus	3.61	-0.46	2.63	-0.42	5.25	+1.39	4.29	+0.48	2.37	-1.63	3.15	-1.24	2.87	-2.10	4.78	+0.73	1.72	-1.31	2.68	-0.37	1.55	-1.01	3.88	+0.19	38.78	-5.75	
Martin	.....	.....	1.47	.....	4.88	.....	2.76	.....	3.21	.....	4.44	.....	4.49	.....	1.76	.....	1.95	.....	2.49	.....	0.93	.....	2.98	.....	.....	.....
New Castle	1.62	-1.38	1.69	-0.78	4.23	+1.48	4.10	+1.23	3.10	-0.14	.....	.....	4.03	-0.23	3.35	+0.20	2.61	-0.53	1.63	-1.11	1.68	-0.48	2.28	-0.18	.....	.....
Newell	1.69	.....	1.20	.....	4.78	.....	3.32	.....	2.69	.....	4.05	.....	2.19	.....	1.28	.....	1.87	.....	2.38	.....	0.74	.....	2.57	.....	.....	.....
North Shenango	.....	.....	1.51	.....	4.35	.....	3.27	.....	2.86	.....	2.58	.....	3.65	.....	3.54	.....	1.73	.....	2.33	.....	2.41	.....	2.60	.....	.....	.....
Parkers Landing	2.30	-1.22	1.42	-1.75	4.76	+1.14	3.64	+0.12	2.13	-1.65	2.49	-1.89	2.85	-1.62	2.17	-1.93	0.44	-2.97	2.54	-0.34	2.08	-0.77	3.34	+0.16	30.16	-12.72	
Pennline	1.79	.....	1.35	.....	4.03	.....	2.32	.....	2.70	.....	3.94	.....	3.77	.....	6.06	.....	2.16	.....	2.05	.....	2.62	.....	1.84	.....	34.63	.....
Pittsburgh	1.56	-1.31	1.57	-1.09	5.84	+2.83	3.56	+0.66	2.59	-0.71	3.12	-0.77	2.80	-1.62	2.35	-0.83	1.54	-0.94	1.62	-0.74	1.31	-1.24	1.98	-0.75	29.84	-6.51	
Ridgway	.....	.....	2.26	-0.25	.....	.....	.....	.....	1.72	-2.62	4.79	+0.28	2.67	-1.46	2.23	+0.69	2.05	-0.83	2.84	-0.38	1.66	-0.98	2.84	+0.30	.....	.....
Saegertown	2.11	-1.38	.....	.....	4.11	+0.67	3.37	+0.12	3.25	-1.19	3.67	-0.63	4.87	+0.52	2.94	-1.14	1.43	-2.12	2.24	-1.36	4.52	+1.24	3.21	-0.05	.....	.....
Saltsburg	2.15	-1.73	2.23	-0.83	5.03	+1.72	3.89	+0.56	2.79	-0.62	4.28	+0.35	4.64	+0.89	2.66	-1.03	1.12	-2.32	2.36	-0.81	1.93	-0.17	2.91	-0.39	35.99	-4.38	
Sharon	1.29	.....	1.26	.....	3.62	.....	3.43	.....	2.42	.....	1.84	.....	4.65	.....	2.58	.....	1.02	.....	1.55	.....	1.66	.....	2.22	.....	27.54	.....
Somerset	4.19	-0.59	3.61	-0.36	5.77	+1.32	5.33	+0.71	4.56	-0.46	2.78	-2.38	4.64	+0.22	1.68	-2.90	1.39	-2.28	3.22	+0.10	1.66	-1.80	4.11	+0.16	42.94	-8.26	
Springdale	1.97	-1.90	2.20	-0.44	5.34	+1.77	5.15	+1.91	2.40	-1.12	3.60	-0.81	7.58	+3.79	2.16	-1.98	1.75	-1.47	3.00	-0.32	1.78	-0.25	2.45	-0.72	39.38	-1.54	
Summit	1.70	.....	1.14	.....	4.19	.....	2.78	.....	2.65	.....	5.98	.....	3.25	.....	6.45	.....	1.12	.....	3.08	.....	2.51	.....	1.75	.....	36.60	.....
Tionesta	1.83	.....	1.51	.....	4.93	.....	3.59	.....	3.02	.....	3.27	.....	3.24	.....	4.45	.....	2.34	.....	3.51	.....	2.77	.....	3.44	.....	37.90	.....
Turnerville	.....	.....	1.27	.....	3.41	.....	.....	.....	2.35	.....	.....	.....	2.78	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Uniontown	3.00	-0.91	1.61	-1.55	4.90	+0.85	2.88	-0.90	2.21	-1.88	2.51	-2.29	4.87	-0.18	2.67	-1.99	2.70	-0.48	4.20	+0.99	1.16	-1.95	2.85	-0.75	35.56	-11.04	
Vandergrift	1.71	.....	2.89	.....	4.61	.....	3.78	.....	2.09	.....	5.47	.....	5.11	.....	3.13	.....	1.08	.....	2.73	.....	2.47	.....	3.27	.....	.....	.....
Warren	1.48	-1.57	1.51	-1.20	3.49	+0.28	3.07	-0.41	3.00	-1.45	5.81	+1.50	2.45	-2.48	4.62	+0.54	2.32	-1.31	2.82	-0.63	2.65	-0.68	2.95	-0.16	36.17	-7.57	
Washington	1.73	.....	1.57	.....	6.03	.....	4.13	.....	2.12	.....	3.90	.....	2.21	.....	1.04	.....	2.17	.....	2.04	.....	0.79	.....	2.58	.....	30.31	.....
Waynesburg	.....	.....	.....	.....	.....	.....	3.64	.....	.....	.....	4.99	.....	.....	.....	2.08	.....	2.46	.....	2.38	.....	0.77	.....	2.47	.....	.....	.....
Westford	1.67	.....	0.92	.....	4.20	.....	3.39	.....	2.48	.....	3.01	.....	3.61	.....	3.69	.....	1.77	.....	1.96	.....	2.11	.....	2.76	.....	31.57	.....
West Newton	1.60	-1.93	2.17	-0.93	5.18	+1.48	4.14	+0.75	2.44	-1.12	6.30	+2.27	2.05	-2.42	2.62	-1.31	1.47	-1.14	3.17	+0.48	0.93	-1.39	2.24	-1.05	34.31	-6.31	
POTOMAC BASIN.																											
Arendtsville	.....	.....	.....	.....	.....	.....	1.31	.....	3.77	.....	6.57	.....	2.38	.....	2.04	.....	1.34	.....	2.00	.....	0.65	.....	2.96	.....	.....	.....
Chambersburg	2.91	+0.32	2.05	-0.86	3.76	+0.76	1.96	-0.88	3.19	-0.46	7.77	+3.76	3.99	+0.71	2.43	-1.81	1.08	-1.66	2.42	-0.78	0.75	-1.90	2.78	+0.16	35.09	-2.64	
LAKE BASIN.																											
Erie	1.97	-1.06	1.25	-1.60	4.34	+1.68	2.45	+0.05	1.98	-1.45	2.11	-1.64	4.00	+0.79	2.66	-0.60	1.72	-1.77	2.01	-1.79	2.99	-0.62	2.25	-0.81	29.73	-8.82	
West Bingham	1.60	.....	1.31	.....	3.04	.....	1.94	.....	2.77	.....	5.62	.....	1.45	.....	2.97	.....	1.37	.....	2.82	.....	1.08	.....	1.26	.....	.....	.....

Letters of alphabet denote number of days missing.

Monthly and Annual Mean Temperatures for the Year 1922, with Departures from the Normal.

STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.
Atlantic Drainage.																										
Altoona	23.6	-3.7	32.4	+6.6	38.8	+1.5	49.2	+1.0	62.5	+3.1	68.2	+2.0	70.6	-0.5	68.0	-1.6	67.1	+4.4	54.8	+2.9	42.6	+1.8	31.4	+2.4	50.8	+1.7
Arendtsville	23.6	-6.3	37.2	+7.4	42.1	.....	50.8	.....	64.0	.....	71.8	.....	73.6	.....	67.8	.....	67.9	.....	57.6	.....	45.2	.....	32.4	.....	.....	.....
Bethlehem	23.6	-6.3	37.2	+7.4	42.1	.....	50.8	.....	64.0	.....	71.8	.....	73.6	.....	67.8	.....	67.9	.....	57.6	.....	45.2	.....	32.4	.....	.....	.....
Bustleton	25.8	-2.1	34.2	+4.8	42.5	+5.0	53.4	+1.2	65.1	+4.9	72.4	+1.5	74.6	-0.2	71.2	-1.5	69.7	+5.0	57.5	+5.2	44.5	+3.8	31.6	+0.3	53.5	+2.3
Carlisle	23.4	-4.7	31.4	+2.3	39.8	+2.2	50.0	-1.3	62.6	+1.2	70.3	+2.6	73.0	+0.3	70.1	-0.2	67.0	+3.5	55.0	+1.4	42.6	+0.2	30.2	-1.4	51.3	+0.5
Catawissa	24.4	-1.0	33.3	+7.4	37.4	+1.6	47.8	-1.1	59.8	0.0	65.8	-0.3	68.6	-2.3	66.9	-2.3	65.6	+3.6	.....	.....	.....	.....	30.6	+1.6	.....	.....
Center Hall	25.8	-2.9	34.6	+3.8	42.0	+3.6	52.0	+2.2	63.5	+2.3	72.1	+2.7	73.6	-1.1	70.1	-2.1	67.6	+1.7	56.0	+3.2	44.0	+2.6	32.0	-0.9	52.8	+1.3
Chambersburg	25.3	-3.5	32.8	+6.0	40.2	+4.1	50.0	+2.0	63.2	+2.9	70.0	+3.7	72.0	+0.9	70.6	+0.2	67.2	+4.0	55.0	+2.0	42.8	+2.1	30.8	+2.1	51.7	+2.2
Clearfield	26.6	-3.8	34.0	+4.1	41.5	+2.1	51.6	+0.8	64.5	+2.8	72.6	+2.7	74.9	+0.2	72.0	-0.8	66.7	+0.6	55.4	+1.1	42.0	-0.9	30.8	-2.2	52.7	+0.6
Coatesville	25.5	.....	32.8	.....	40.4	.....	50.8	.....	63.2	.....	70.8	.....	72.4	.....	69.6	.....	66.4	.....	55.6	.....	43.2	.....	30.9	.....	51.8	.....
Colebrook	21.8	-4.0	30.9	+6.2	36.9	+1.9	47.5	+0.4	59.8	+1.1	66.0	-0.2	68.4	-1.8	65.0	-2.9	62.7	+1.3	49.8	-0.2	40.3	+1.1	28.6	-0.5	48.1	+0.2
Emporium	27.3	-2.0	34.4	+6.3	43.1	+4.1	52.6	+2.6	64.8	+3.9	72.1	+4.1	74.1	+0.1	71.0	-0.8	67.5	+2.0	56.4	+1.3	44.0	+1.6	32.7	+1.4	53.3	+2.0
Ephrata	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	68.2	-1.7	64.4	+1.6	.....	.....	.....	.....	.....	.....	.....	.....
Everett	22.4	.....	28.4	.....	35.4	.....	44.9	.....	59.4	.....	66.6	.....	68.3	.....	65.4	.....	61.2	.....	50.0	.....	36.8	.....	25.0	.....	48.0	.....
Freeland	27.6	-3.2	33.2	+3.5	41.4	+2.2	51.2	+1.1	63.4	+2.4	71.5	+3.8	73.4	-0.2	70.6	-0.8	67.2	+2.3	57.0	+2.1	43.5	+0.9	32.2	-0.1	52.7	+1.2
George School	28.0	-1.0	36.0	+5.7	43.1	+3.9	53.0	+2.6	64.8	+3.5	72.8	+3.2	74.8	+0.8	71.3	-0.4	68.7	+3.7	58.0	+5.8	45.7	+4.4	34.2	+2.5	54.2	+2.9
Gettysburg	22.9	-3.5	31.2	+5.9	39.0	+3.1	48.0	+0.9	61.2	+2.7	68.2	+3.0	70.4	+0.2	67.7	-0.5	64.4	+2.6	52.6	+1.9	41.2	+2.2	29.6	+1.1	49.8	+1.6
Gordon	25.0	-3.7	32.0	+3.2	.....	.....	49.8	-0.6	62.6	+0.9	69.6	+0.1	72.3	-1.6	69.0	-2.9	65.5	0.0	54.8	+0.9	42.0	-0.2	30.7	-1.3	.....	.....
Hamburg	28.2	-4.7	36.0	+4.3	42.6	+1.0	53.2	+0.2	65.5	+1.6	73.0	+2.4	75.1	-0.3	71.4	-2.2	69.2	+2.0	58.3	+2.2	45.8	+1.6	34.8	+1.0	54.4	+0.8
Hanover	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Harrisburg	26.9	-1.8	34.3	+4.4	41.8	+4.0	52.6	+1.9	65.0	+3.3	72.2	+1.9	74.6	+0.1	71.4	-0.7	68.9	+4.0	57.7	+3.7	45.2	+3.5	32.9	+0.1	53.6	+2.0
Hawley	21.9	.....	29.0	.....	36.4	.....	47.2	.....	59.6	.....	68.0	.....	70.5	.....	67.4	.....	62.9	.....	51.6	.....	39.4	.....	27.2	.....	48.4	.....
Holtwood	27.3	.....	33.8	.....	42.0	.....	54.2	.....	66.7	.....	73.9	.....	76.2	.....	73.7	.....	69.4	.....	58.4	.....	46.0	.....	34.1	.....	54.0	.....
Huntingdon	24.0	-4.6	33.4	+5.0	40.2	+1.9	51.3	+1.7	63.4	+2.7	71.0	+2.8	72.6	+0.4	69.3	-1.4	67.2	+2.9	55.2	+2.7	43.6	+2.1	31.7	+0.2	51.9	+1.4
Jersey Shore	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	73.0	.....	67.4	.....	55.0	.....	42.6	.....	30.4	.....	.....	.....
Kennett Square	27.6	-3.4	34.2	+3.8	.....	.....	51.9	+1.4	64.2	+2.9	71.8	+2.9	74.2	+0.3	71.4	-0.5	67.8	+1.6	57.6	+3.0	.....	.....	.....	.....	.....	.....
Lancaster	26.4	-3.2	34.1	+4.3	42.3	+4.3	51.4	+0.6	63.0	+2.0	71.6	+1.5	73.8	+0.4	70.6	-2.1	66.7	+2.2	55.2	+1.8	43.8	+0.7	31.6	-1.8	52.5	+0.9
Lawrenceville	21.2	-3.4	30.7	+7.7	37.8	+3.8	47.8	+2.0	60.9	+3.4	67.5	+2.3	69.9	-0.3	67.1	-1.0	64.3	+3.0	52.6	+2.1	41.0	+2.3	29.4	+2.0	49.2	+2.0
Lebanon	27.0	-2.0	34.0	+5.3	41.6	+3.0	52.2	+1.7	64.6	+3.6	71.8	+2.5	73.8	-0.1	70.8	-1.2	67.8	+2.6	57.3	+4.1	44.4	+2.2	30.8	-1.1	53.0	+1.7
Lewisburg	23.0	-2.4	31.0	+5.2	40.8	+5.3	50.5	+2.3	63.4	+4.9	71.1	+3.9	73.5	+2.0	70.9	+0.3	67.6	+5.6	55.6	+5.4	43.8	+4.7	29.9	+0.9	51.8	+3.2
Lykens	23.7	.....	31.8	.....	39.6	.....	50.6	.....	62.6	.....	69.2	.....	71.4	.....	68.6	.....	66.2	.....	54.6	.....	42.7	.....	30.6	.....	51.0	.....
Marcus Hook	29.0	.....	35.3	.....	43.2	.....	52.1	.....	66.0	.....	73.6	.....	76.5	.....	73.2	.....	69.4	.....	59.0	.....	47.0	.....	34.9	.....	54.9	.....
Mauch Chunk	25.0	-2.4	31.0	+4.0	39.6	+2.8	49.8	+1.0	62.6	+2.5	69.6	+1.8	72.4	+0.1	69.2	-1.1	66.0	+2.0	54.8	+2.5	43.0	+2.4	30.2	-0.3	51.1	+1.3
Mifflintown	25.4	-2.2	32.5	+5.8	40.2	+2.2	52.8	+3.0	64.8	+4.1	72.4	+4.6	75.0	+2.3	70.8	+0.2	68.9	+5.1	56.2	+3.8	45.4	+4.8	32.8	+2.6	53.1	+3.0
Montrose	18.7	-3.8	25.4	+5.1	33.2	+2.1	43.0	-1.1	56.6	+1.6	62.6	-0.1	66.8	-1.4	64.6	-2.3	65.4	+5.3	.....	.....	42.0	+5.1	24.8	-0.8	.....	.....
Muncy Valley	19.5	.....	29.5	.....	37.7	.....	47.4	.....	60.0	.....	66.6	.....	68.4	.....	66.2	.....	63.4	.....	52.4	.....	40.2	.....	27.3	.....	48.2	.....
Narberth	28.3	.....	34.4	.....	42.2	.....	52.4	.....	64.4	.....	72.2	.....	74.0	.....	71.4	.....	68.0	.....	57.8	.....	45.3	.....	33.4	.....	53.8	.....
Neshaminy Falls	26.1	.....	32.6	.....	41.6	.....	50.7	.....	63.6	.....	71.6	.....	73.3	.....	70.7	.....	66.4	.....	56.4	.....	43.2	.....	30.0	.....	52.2	.....
Palmerton	24.4	.....	30.3	.....	39.1	.....	49.2	.....	61.6	.....	70.4	.....	73.0	.....	69.6	.....	65.7	.....	54.4	.....	42.8	.....	30.2	.....	50.9	.....
Philadelphia (a)	31.2	-0.6	36.7	+3.9	43.6	+3.6	54.0	+3.2	66.4	+4.2	73.6	+2.4	75.5	-0.3	73.0	-0.8	69.7	+2.3	60.6	+4.3	48.1	+3.2	36.1	+0.4	55.7	+2.1
Philadelphia (d)	30.1	.....	35.8	.....	42.8	.....	53.1	.....	66.2	.....	73.7	.....	75.8	.....	73.0	.....	69.7	.....	59.8	.....	46.8	.....	34.8	.....	55.1	.....
Phoenixville	26.2	.....	34.2	.....	42.8	.....	52.2	.....	64.8	.....	73.2	.....	75.1	.....	71.8	.....	67.8	.....	57.2	.....	43.5	.....	32.4	.....	53.4	.....
Quakertown	24.8	-2.2	32.0	+3.8	39.8	+3.5	50.0	+1.6	62.3	+2.7	69.8	+1.6	72.4	-0.1	70.0	-0.3	65.8	+2.2	54.5	+2.4	41.2	+0.2	30.0	-1.1	51.0	+1.2
Reading	27.8	-1.6	34.6	+5.8	41.8	+1.8	52.3	+2.0	65.1	+2.6	72.0	+2.2	74.4	-1.1	71.9	-0.5	68.1	+1.8	58.0	+3.3	45.8	+3.3	33.0	+0.8	53.7	+1.7
Sadsburyville	28.6	.....	34.6	.....	42.0	.....	51.1	.....	65.0	.....	73.6	.....	74.9	.....	72.6	.....	68.7	.....	57.2	.....	44.8					

COOPERATIVE AND RAINFALL OBSERVERS.

Stations.	Observers.	Stations.	Observers.	Stations.	Observers.
Allentown.....	John A. Frick.	Gettysburg.....	Col. E. B. Cope.	Penn Line.....	Retta Crumb.
Altoona.....	Lewis E. Biller.	Girardville.....	Girard Water Co.	Philadelphia.....	U. S. Weather Bureau.
Ansonia.....	Paul H. Mulford.	Gordon.....	Capt. J. G. Johnson.	Philadelphia.....	Commandant, Navy
Arendtsville.....	R. C. Walton.	Gouldsboro.....	Gustav Holtz.	Navy Yard	Yard.
Beaver Dam.....	F. H. McCullough.	Graterford.....	C. K. Kulp.	Phoenixville.....	N. Springfield Water Co.
Beaver Falls.....	W. Edward Eakin.	Greensburg.....	Westmoreland Water Co.	Pittsburgh.....	U. S. Weather Bureau.
Bellefonte.....	Western Penitentiary.	Greenville.....	Water Supply Com.	Pottstown.....	William A. Stephan.
Bethlehem.....	E. Eugene McCole.	Grove City.....	Prof. H. W. Harmon.	Pottsville.....	John H. Strauch.
Blossville.....	A. G. Mount.	Hamburg.....	State Sanatorium.	Quakertown.....	John E. Benner.
Bradford.....	B. A. Wise, C. E.	Hanover.....	Mrs. Mabel Wolcott.	Reading.....	U. S. Weather Bureau.
Brady Bend.....	E. R. Dewey.	Harrisburg.....	U. S. Weather Bureau.	Renovo.....	H. L. Baird.
Brookville.....	John Fawcett.	Hawley.....	J. S. Pennell.	Ridgway.....	Earl Overholser.
Bustleton.....	Agr. Experiment Station.	Herr's Island Dam.....	Victor W. Phillips.	Sadsburyville.....	S. A. Clarke.
Carlisle.....	Clarence E. Miller.	Holtwood.....	H. W. Lowy, C. E.	Saegertown.....	J. G. Apple.
Catawissa.....	H. H. Yetter.	Huntingdon.....	Prof. W. J. Swigart.	Saltsburg.....	Thomas M. Duncan.
Cedar Run.....	C. R. Nivison.	Indiana.....	R. W. Wehrle.	Scranton.....	U. S. Weather Bureau.
Center Hall.....	S. W. Smith.	Irwin.....	W. F. Gallagher.	Selinsgrove.....	Prof. T. C. Houtz.
Chambersburg.....	Wm. B. Spear.	Jersey Shore.....	C. B. McCullough.	Sharon.....	J. K. Harris.
Clarion.....	Benjamin O. Cyphert.	Johnstown.....	E. C. Lorentz.	Shawmont.....	Winfield S. Guiles.
Claysville.....	J. L. Melvin.	Kennett Square.....	Wm. P. Mercer.	Somerset.....	William M. Schrock, C. E.
Clearfield.....	E. W. Hess, C. E.	Ketner.....	J. Nelson.	Springdale.....	James C. Patton.
Cloe.....	Frank McElwain.	Lancaster.....	C. K. Wills.	State College.....	C. A. Kern.
Clymer.....	Thomas Fleitz.	Lansford.....	Lehigh Coal & Nav. Co.	Stroudsburg.....	H. Q. Snyder.
Coatesville.....	Prof. W. T. Gordon.	Lawrenceville.....	C. P. Darling.	Summit.....	L. E. Diekey.
Colebrook.....	William A. Rorer.	Lebanon.....	S. B. Benzing.	Sunbury.....	Theo. Welker.
Confluence.....	Grant Pyle.	Lewisburg.....	Prof. Wm. G. Owens.	Tionesta.....	J. R. Clark.
Corapolis.....	E. B. Weigle.	Linesville.....	Water Supply Com.	Towanda.....	Hiram E. Bull, C. E.
Corry.....	N. R. Dickson.	Lloyd.....	M. L. Fish.	Turnerville.....	S. A. Marvin.
Creekside.....	John B. Weight.	Lock Haven.....	R. Scott Kift, C. E.	Uniontown.....	Wm. W. Marsteller.
Cresson.....	J. C. Burrows.	Lock No. 4.....	Charles R. Taylor.	Vandergrift.....	W. H. McCune.
Davis Island Dam.....	Thomas C. Dawson.	Lycippus.....	Westmoreland Water Co.	Warren.....	Mrs. Anna Simpson.
Derry.....	Wm. A. Huff, Jr.	Lykens.....	Susquehanna Coal Co.	Washington.....	G. S. Buchanan.
Doyletown.....	Geo. Hart.	Marcus Hook.....	General Chemical Co.	Waynesburg.....	H. T. McClelland.
Driftwood.....	H. P. Mutthersbaugh.	Martin.....	George W. Paxton.	Weikert.....	David Libby.
Ebensburg.....	D. H. Jones.	Mauch Chunk.....	R. K. Wintermute.	Wellsboro.....	George W. Hill.
Edinboro.....	G. U. Hopkins.	Mifflintown.....	Wellington Smith.	West Bingham.....	Frank Johnson.
Elk Lick.....	J. A. Stevanus.	Montrose.....	Silas Jagger.	West Chester.....	Arthur M. Hay.
Emporium.....	T. B. Lloyd.	Mount Pocono.....	Cecil J. Hoskinson.	Westford.....	C. C. Collins.
Ephrata.....	E. K. Hershey.	Mount Union.....	C. R. Gracey.	West Newton.....	A. B. Adams.
Erie.....	U. S. Weather Bureau.	Muncy Valley.....	A. H. Boatman.	White Haven.....	Mrs. Jane E. Wallen.
Everett.....	Joseph E. Thropp.	Narberth.....	Charles Decker.	Wilkes-Barre.....	Milton Wentz.
Falls Creek.....	J. S. Snell.	Neshaminy Falls.....	N. Springfield Water Co.	Williamsport.....	Jacob April.
Forest City.....	L. L. Whipple.	New Castle.....	New Castle Water Co.	York.....	C. L. Bott.
Franklin.....	F. E. Dixon.	Newell.....	General Chemical Co.	York Haven.....	Water Supply Co.
Freeland.....	Theodore Reichmann.	North Shenango.....	Mrs. H. M. Patterson.		
Freeport.....	Mrs. Anna R. Burtner.	Palmerton.....	Frank G. Bryer.		
George School.....	N. W. Swayne.	Parkers Landing.....	Henry Turk.		

WEATHER BUREAU AND COOPERATIVE STATIONS, 1922.



KEY TO SYMBOLS.

- Meteorological Observations. (Regular Weather Bureau Stations.)
- Meteorological Observations. (Sub Stations.)

MAR 3 1923

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXVIII.

JANUARY, 1923.

No. 1.

GENERAL SUMMARY.

The month was comparatively mild, but decidedly stormy and quite unfavorable for outdoor work. As nearly as can be determined, the percentage of cloudy weather was greater than it has been in any January since 1910. Heavy rains occurred on the 1st in nearly all parts of the State, and rain or snow fell at fairly close intervals throughout the month. While snow accumulated to unusual depths over all but some western and southeastern counties, the rains and thawing that occurred from time to time were generally sufficient to bring the streams up to moderate stages and to restore normal water supply conditions, finally overcoming the effects of the deficiency in precipitation that persisted during the preceding six months.

In most parts of the State conditions were quite favorable for winter grains, as the ground had not been frozen to any considerable depth before there was a good snow cover. Light to moderate falls of snow occurred extensively on the 4th, and moderate to heavy snow fell on the 8th throughout the mountain sections. The heaviest snowstorm of the month came on the 14th, when from six to twelve inches or more fell in the central part of the State and somewhat smaller amounts in eastern and western counties. In the central and northeastern part of the State this snow drifted badly and much work was required to open the main highways. Snow fell more frequently during the latter half of the month, and heavy falls were widely reported on the 24th and 28th, especially in eastern and central counties.

TEMPERATURE.

The average temperature for the State, as determined from the records of 83 stations, was 29.1°, which is 1.2° above the January normal. The warmest days were the 1st, 18th, and 21st with maximum temperatures generally in the forties and fifties. The coldest days were the 11th, 17th, 18th and 31st with minimum temperatures mostly from a few degrees below zero to ten above. The highest recorded in the State was 62° on the 21st at Marcus Hook, and the lowest -17° on the 31st at Hawley. There were no unusually extended periods of either abnormally cold or warm weather.

PRECIPITATION.

The average precipitation for the State, as determined from the records of 131 stations, was 4.26 inches, or 0.82 inch more than normal. Very few stations reported amounts below normal, and only one station had less than two inches. The greatest monthly amount was 7.74 inches at Elk Lick, and the least was 1.91 inches at Ansonia. The greatest 24-hour precipitation was 1.77 inches rainfall on the 1st at the Philadelphia Navy Yard station. The average snowfall for the State was 17.6 inches, which exceeds all monthly averages since that for February, 1920, which was 18.3 inches. In the northeastern quarter of the State many places had over thirty inches during the month. The greatest snowfall recorded at any station was 43.0 inches at Freeland.

G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Total move- ment, in miles.	Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.			Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	17.1	295.3	6	78	77	12,339	16.6	53	se.	18
Harrisburg.....	99.0	300.9	33	74	72	5,799	7.8	30	nw.	28
Philadelphia.....	101.0	300.9	34	72	64	8,391	11.3	34	nw.	1
Pittsburgh.....	77.4	298.2	26	81	76	9,625	12.9	43	nw.	16
Reading.....	89.0	300.9	30	77	76	5,333	7.1	36	nw.	25
Scranton.....				82	80	5,263	7.1	31	w.	12

* For any five-minute period.

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	23.2	61	-19	4.19	6.75	2.12	5	11	15
1889.....	29.4	68	-5	3.54	7.02	1.82	9	13	9
1890.....	37.5	77	-2	3.04	6.87	1.47	7	8	16
1891.....	30.5	64	-4	3.64	8.74	1.22	6	10	15
1892.....	26.2	66	-28	4.77	8.46	2.08	8	8	15
1893.....	19.0	57	-25	2.85	4.82	1.65	7	10	14
1894.....	32.8	65	-9	2.29	4.71	0.83	9	9	13
1895.....	24.2	58	-17	4.17	6.36	1.83	7	10	14
1896.....	27.6	60	-15	1.43	2.40	0.52	8	9	14
1897.....	25.6	74	-25	2.15	3.54	0.87	8	8	15
1898.....	30.7	67	-16	4.25	7.57	1.32	6	8	17
1899.....	26.6	66	-21	3.05	4.84	0.82	12	8	11
1900.....	29.8	63	-8	2.64	4.37	1.36	8	8	14
1901.....	29.1	59	-10	2.22	4.41	0.74	8	8	15
1902.....	25.6	58	-13	2.80	5.15	1.00	8	8	14
1903.....	26.9	68	-13	3.31	5.09	1.49	6	8	17
1904.....	20.0	66	-42	3.55	5.82	2.08	10	8	15
1905.....	23.8	69	-21	3.70	7.55	1.72	8	8	15
1906.....	35.0	85	-4	2.53	5.28	0.76	10	8	13
1907.....	30.0	75	-23	4.36	9.69	2.14	6	7	18
1908.....	28.4	59	-18	2.68	5.33	1.46	12	8	11
1909.....	31.2	72	-19	2.92	4.25	1.58	9	6	16
1910.....	27.2	56	-22	5.55	8.91	3.27	7	9	19
1911.....	31.6	70	-5	3.54	6.38	1.25	8	9	18
1912.....	18.6	57	-35	1.92	3.72	0.47	8	7	16
1913.....	36.5	65	3	4.95	8.90	1.51	9	6	16
1914.....	30.2	81	-27	3.37	5.77	1.40	7	7	17
1915.....	28.3	62	-26	5.56	9.69	2.43	10	6	15
1916.....	34.2	76	-12	2.42	5.33	0.20	9	8	14
1917.....	27.9	69	-18	3.60	6.69	1.06	11	8	12
1918.....	16.2	57	-29	3.51	7.28	1.20	10	8	13
1919.....	32.0	64	-15	2.53	2.10	0.34	14	8	9
1920.....	20.9	59	-23	2.47	5.35	1.00	9	8	14
1921.....	31.0	63	-13	2.58	5.23	0.89	12	7	12
1922.....	25.0	62	-19	2.26	4.46	1.15	14	7	10
1923.....	29.1	62	-17	4.26	7.74	1.91	6	6	19

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	3.6	8.0	2	2.3	15	18
Phillipsburg.....	Delaware.....	2.7	5.0	3	1.0	1	22
Mauch Chunk.....	Lehigh.....	6.3	8.3	2	3.8	9	15
Wilkes-Barre.....	Susquehanna.....	5.1	8.8	3	3.1	19	20
Williamsport.....	Susquehanna.....	3.1	5.0	3	1.1	16	20
Harrisburg.....	Susquehanna.....	5.4	7.2	25	4.2	13	17
Freeport.....	Allegheny.....	7.7	15.7	22	4.3	14	22
West Newton.....	Youghiogheny.....	3.0	6.8	22	1.2	14	20
Lock No. 4.....	Monongahela.....	17.6	23.8	29	14.6	8	20
Pittsburgh.....	Ohio.....	11.6	17.2	22	8.5	14	22
Beaver Dam.....	Ohio.....	12.9	22.4	23	8.0	8	30

Climatological Data for January, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.			Prevailing direction of wind.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.			Pt. cloudy.	Cloudy.
Atlantic Drainage.																				
Allentown	Lehigh	254	11	27.5	.....	50	1	5	30	31	5.11	+1.46	0.92	12.0	15	8	4	19	nw.	John A. Frick.
Altoona	Blair	1,615	36	27.6	+0.3	47	19	6	11 ^b	26	3.75	+1.25	0.66	18.0	15	7	6	18	w.	Lewis E. Biller.
Arendtsville	Adams	700	4	30.3 ^b	.....	47 ^b	1	11 ^b	31	28 ^b	3.36	.....	1.02	12.0	13	5	4	22	nw.	R. C. Walton.
Bethlehem	Northampton	295	39	31.7	+1.8	56	2	2	31	33	3.99	+0.41	0.90	17.0	9	1	22	8	nw.	E. E. McCollm.
Bustleton	Philadelphia	125	4	29.4	.....	48	22	11	17	28	4.51	.....	1.14	8.5	10	8	4	19	n	Experiment Station
Carlisle	Cumberland	467	56	30.2	+2.3	44	1	7	31	23	4.65	+1.53	1.04	23.5	12	9	2	20	ne.	Prof. C. E. Miller.
Catawissa	Columbia	520	26	28.9	+0.8	44	2	-1	31	36	4.20	+0.88	1.15	17.0	13	9	3	19	ne.	H. H. Yetter.
Center Hall	Center	1,272	27	27.6	+2.2	43	21	4	17	25	4.37	+1.82	1.58	34.8	10	7	10	14	.....	S. W. Smith.
Chambersburg	Franklin	580	23	30.1	+1.4	47	19	12	31	23	4.44	+1.85	1.39	12.4	14	6	6	19	w.	William B. Spear.
Clearfield	Clearfield	1,120	13	28.8	+1.9	48	19	4	17 ^b	30	3.67	-0.17	0.90	39.0	16	6	3	22	nw.	E. W. Hess.
Coatesville	Chester	380	35	29.0	-1.4	55	21	4	31	28	4.52	+0.55	1.20	10.9	13	6	10	15	ne.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	13	29.4	.....	48	1	8	31	26	3.84	+0.43	0.95	8.5	12	7	3	21	nw.	Wm. A. Rorer.
Emporium	Cameron	1,050	35	27.2	+1.4	49	1	1	7 ^b	44	4.55	+1.02	1.29	32.0	12	5	2	24	w.	T. B. Lloyd.
Ephrata	Lancaster	380	22	31.0	+0.7	49	1 ^b	8	31	24	3.65	+0.66	0.92	13.0	9	6	5	20	n.	E. K. Hershey.
Everett	Bedford	1,040	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thropp Co.
Freeland	Luzerne	1,970	8	21.6	.....	44	1	-4	17	26	6.69	.....	1.30	43.0	20	6	3	22	nw.	Theo. Reichmann.
George School	Bucks	190	16	29.5	-1.3	53	21	4	31	29	4.92	+1.85	1.38	12.4	13	14	9	8	w.	Prof. N. W. Swayne.
Gettysburg	Adams	600	49	31.8	+2.8	51	1	12	31	25	3.73	+0.59	0.92	14.0	11	7	9	15	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	19	27.0	+0.6	50	1	-3	31	31	5.49	+1.56	1.46	27.0	9	9	3	19	w.	Capt. J. G. Johnson.
Hamburg	Berks	535	30	28.4	-0.3	51	1	6	18	29	3.55	-0.21	1.03	13.0	10	12	7	12	w.	State Sanatorium.
Hanover	York	600	19	32.8	-0.1	58	21	15	17	24	3.32	0.00	0.89	.....	13	6	11	14	w.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	53	31.2	+2.5	47	1	13	17	24	3.14	+0.32	1.07	9.3	12	5	4	22	w.	U. S. Weather Bureau.
Hawley	Wayne	900	4	23.4	.....	45	1	-17	31	39	5.53	.....	1.50	38.5	13	.....	.....	.....	.....	J. S. Pennell.
Huntingdon	Huntingdon	650	35	29.4 ^a	+0.8	47	25	7 ^a	31	28 ^a	3.48	+0.16	1.00	.....	8	9	8	14	.....	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	3	28.2	.....	41	19	0	31	30	3.83	.....	0.95	29.8	13	13	6	12	.....	C. B. McCullough.
Lancaster	Lancaster	255	35	31.8	+2.2	52	1 ^b	11	18	29	4.71	+1.46	1.24	6.0	10	13	11	7	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	25	25.4	+0.8	48	2	-10	31	40	2.85	+0.81	1.00	29.5	9	7	6	18	.....	C. P. Darling.
Lebanon	Lebanon	469	82	29.8	+0.8	48	1	10	31	30	3.42	-0.17	1.00	11.2	12	11	9	11	e.	S. B. Benzing.
Lewisburg	Union	450	48	28.1	+2.7	43	2 ^b	-7	31	33	5.28	+2.31	1.35	29.0	12	11	4	16	s.	Prof. W. G. Owens.
Lykens	Dauphin	680	8	28.3	.....	48	1	0	31	32	4.43	.....	1.22	14.0	12	9	4	18	nw.	Susquehanna Collieries Co.
Marcus Hook	Delaware	50	3	34.4	.....	62	21	15	17	28	4.54	.....	1.20	3.8	11	6	9	16	nw.	Gen. Chemical Co.
Mauch Chunk	Carbon	600	33	27.6	+0.2	50	1	-1	31	26	5.41	+1.63	1.47	26.5	11	11	4	16	w.	R. K. Wintermute.
Mifflintown	Juniata	445	19	30.6	+3.0	49	22	5	31	26	3.95	+0.77	1.26	24.5	12	6	5	20	e.	Wellington Smith.
Montrose	Susquehanna	1,658	20	20.2	-2.3	40	1	-8	18 ^b	32	3.60	+0.89	0.80	35.0	8	7	2	22	se.	Silas Jagger.
Mount Pocono	Monroe	1,720	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	11	24.6	.....	40	2 ^b	-5	31	31	5.02	+1.70	1.60	27.2	11	6	7	18	sw.	A. H. Boatman.
Narberth	Montgomery	300	4	31.4	.....	56	21	11	17	27	4.70	.....	1.44	10.9	12	8	5	18	nw.	Charles Decker.
Neshaminy Falls	Bucks	60	34	29.5	.....	57	21	4	31	37	5.04	.....	1.00	9.0	11	11	8	12	s.	North Springfield Water Co.
Palmerton	Carbon	398	6	26.6	.....	50	1	0	30 ^b	34	3.47	.....	0.99	21.1	11	9	8	14	ne.	F. G. Breyer.
Philadelphia (a)	Philadelphia	117	52	34.4	+1.8	59	21	14	18	28	4.78	+1.37	1.21	4.1	12	4	9	18	nw.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	7	33.0	.....	58	21	14	18	28	5.60	.....	1.77	4.7	11	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville	Chester	100	12	30.8	.....	48	21 ^b	12	17	26	3.89	.....	0.83	11.1	11	7	18	6	nw.	North Springfield Water Co.
Quakertown	Bucks	496	38	27.6	+0.6	51	1	-4	31	30	3.31	-0.18	0.74	17.4	15	5	11	15	nw.	John E. Benner.
Reading	Berks	325	53	31.1	+1.8	52	1	12	31	27	3.52	0.00	0.93	14.1	15	5	6	20	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	28	26.8	+1.3	49	1	0	31	30	4.24	+1.44	0.95	23.4	17	4	5	22	nw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	33	27.3	-1.6	43	1 ^b	-3	31	36	5.08	+1.96	1.45	29.0	13	7	3	21	nw.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	27	32.4	.....	51	21 ^b	13	31	25	4.61	+1.36	1.16	3.8	12	5	8	18	nw.	W. S. Guiles.
State College	Center	1,217	38	26.6	+0.3	45	19	3	17	31	4.17	+1.19	1.14	31.2	12	4	7	20	w.	C. A. Kern.
Towanda	Bradford	754	28	24.6	-0.6	44	21	-12	31	40	2.41	+0.31	0.95	13.3	14	4	3	24	e.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	57	22.7	-1.6	43	19 ^b	-12	31	37	2.75	+0.18	0.80	25.0	11	11	7	13	w.	George W. Hill.
West Chester	Chester	455	85	30.7	+0.5	52	21	12	17 ^b	25	3.99	+0.15	0.85	6.0	10	14	7	10	nw.	Arthur M. Hay.
Williamsport	Lycoming	521	36	28.2	+0.9	41	1	1	31	29	4.26	+1.26	1.27	29.0	14	11	2	18	se.	Jacob April.
York	York	400	35	31.9	+2.6	52	21	10	31	28	2.87	-0.12	0.76	.....	12	9	6	16	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	30	33.8	.....	58	18	11	17	39	3.44	+0.57	0.61	3.5	13	5	0	26	sw.	U. S. Engineer.
Bradford	McKean	1,427	8	24.9 ^b	.....	47 ^b	18 ^b	-1 ^b	17	39 ^b	4.50	.....	0.94	30.3	20	6	5	20	w.	City Engineer.
Bradys Bend	Armstrong	990	5	27.5	.....	50	1 ^b	-1	11	39	3.26	.....	0.60	14.7	19	5	3	23	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	32	26.0	+1.2	48	18	1	23	36	4.00	+0.63	1.00	13.5	12	10	11	.....	.....	John Fawcett.
Claysville	Washington	1,150	19	33.0	+1.1	54	18	9	17	35	3.13	-0.40	0.74	3.0	18	6	3	22	n.	J. L. Melvin.
Corry	Erie	1,490	11	25.4	.....	47	18	+1	17	37	5.31	.....	1.08	38.5	22	6	3	22	n.	Nevin R. Dickson.
Derry	Westmoreland	1,172	26	32.0	+1.6	56	18	7	17	45	4.74	+0.83	0.98	10.5	21	5	10	16	w.	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	5	26.2	.....	50	18	-5	11	45	5.04	.....	0.95	.....	16	6	5	20	w.	D. H. Jones.
Elk Lick	Somerset	2,680	6	28.2	.....	48	18	2	17	28	7.74	.....	1.50	25.0	19					

Daily Precipitation for January, 1923.

Stations	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh	.54	.28		.27				.55	.03	.18				.55		.01					.14	.48		.01	.92		.35	.26		.54	5.11	
Altoona|||	Juniata	.47		.03	.03		.14		.36	.19			.15		.66	.16	.09				.05	.26		.46		.19		.05	.65			3.75	
Ansonia|||	W. Br. Susq.	.43			T.	T.		.14	.11	.04	T.	T.	T.		.17	.24	T.				.18							.30	.11			1.91	
Arendtsville	Potomac	1.02		*	.17				.20	.18	T.				.09	T.					*	.36		.20	.64		*	.50				3.36	
Bellefonte	do.	.65	.19	.20		.62			.60						1.12																	4.09	
Bethlehem	Lehigh	.39		.21					.50	.10					.54							.15	.50		.90				.70			3.99	
Bloersville	Lower Susq.	1.25	.35			T.	T.		.20						.30							.90			.90				.55			4.45	
Bustleton	Lower Del.	1.14	.04	*		T.	T.		1.22	.02					.08	T.						.24	.30		1.08				.39			4.51	
Carlisle	Lower Susq.	1.04	.32	.10	T.	T.	T.		.64	.16	T.	T.			.22	.05					.03	.47	.27		.79			T.	.56			4.65	
Catawissa	N. Br. Susq.	1.15	.22	T.	T.	.02	.01	.09	.14						.80		T.					.12	.48	.03		.75		.01	.38			4.20	
Center Hall	Susquehanna	.13	.18		.36				.64		.15				1.58		.12					.11	.48		.72				.38			4.37	
Chambersburg	Potomac	1.39	.22	.02	T.	T.	T.		.37	.14					.13	.05	.02				.23	.22	.22		.92		.03	.48				4.44	
Clearfield	W. Br. Susq.	.75	.02	T.	.02	.26	T.		.15	.20	.24	.05	.05	T.	.90	.05	.10					.36			.20	T.	T.	T.	.30	.02	T.	3.67	
Coatesville	Lower Del.	.93	.14	.22		T.			1.20	.14	.01				.15	.05						.06	.02	.20		1.10			.30			4.52	
Colebrook	Lower Susq.	.95	.08	.11	T.	T.	T.		.64	.13	T.				.16	.01	T.					.15	.25	.13		.77			.46			3.84	
Cresson|||	Juniata	.52	.10	.02		.10	.38		.25	.20	.09	.13	.02		.65	.35	.10					.28	.24		.08			.55	.15		.06	4.77	
Doylstown	Lower Del.	1.12	.20	T.					.51	.20					.27	.02		.05				T.	.08	.61		.74	.04		.34			4.18	
Driftwood	W. Br. Susq.	.80		T.	T.		.20		.30	.10	.10				.90	.20	.30					.30				.90			.20	.60			4.90
Emporium	W. Br. Susq.	.50		T.	T.	T.	.40		.25	.16	T.	T.	.10		1.29	.25						.30	.25		.40			.10	.55	T.		T.	4.55
Ephrata	Lower Susq.	.92		.18		T.			.47	.12	T.				.28		T.					.30	.13	.38		.80			.37		T.	3.65	
Everett	Juniata																																
Forest City	N. Br. Susq.	1.20	.03		.28		.05	T.	.26		.26	T.	T.		.35	.48	T.	T.				.51	.35		.04	1.53			.15	.28		5.77	
Freeland|||	Lehigh	1.30	.28		.25	.01	T.	.03	.36	.04	.30	.08	.10	.06	.34	.82	.08	.03				.51	.62		T.	.74			.40	.34		6.69	
George School	Lower Del.	1.38		.16	.10				.80	.20					.10	.10		T.				.17	.50		.93	.17	.01		.30			4.92	
Gettysburg	Potomac	.92		.08	.09	T.			.62	.15					.08	T.						.05	.21	.13		.78			.62			3.73	
Girardville	Susquehanna	1.37	.17	.08			.04	.32	.20	.02		.02			.55	.02	.03					.20	.70	.03		1.13		.04	.34			5.26	
Gordon	Lower Susq.	1.46		.40		T.			.12	.74					.49	T.						.55	.30		1.03				.40			5.49	
Gouldsboro|||	Lehigh	.28	1.04	.22		.09			.31		.32	.26	.05		.28	.32		.19		.06	.38	.32	.26		.38	.62			.43	.32		5.70	
Graterford	Schuylkill	1.06	.19	.85					.76	.09					.68								.48										4.90
Hamburg	Schuylkill	1.00			.20				.15	.35					.30						.14		1.03				.10		.08	.20			3.55
Hanover	Lower Susq.	.65	.03	.10					.57	.07					.03	.04						.05	.17	.26		.89			.45			.01	3.32
Harrisburg***	do.	.95	.13	T.	T.	T.		.04	.23	.19	T.				.19	T.						.26	.34	.01		.46		.17	.17			T.	3.14
Hawley|||	Upper Del.	.40	.15		.20			.10	.60	.03	.12				1.12	T.				.05			.14	.55			1.50			.57			5.53
Holtwood|||	Lower Susq.	.98	.02		.77				.30		.20				.18							.30	.34		T.	.90			.50	.20			4.69
Huntingdon	Juniata	1.00		.10	T.		.15	T.	.38	T.	T.				.50	T.						T.	.35					T.	.50			T.	3.48
Jersey Shore	W. Br. Susq.	.95		.09		.01	.15		.41	.17					.81	.10	T.					.01	.18			.47	.01			.45			3.83
Lancaster	Lower Susq.	1.24		.09					.75	.08					.08	.05							.32			.66							4.71
Lansford|||	Lehigh	1.30	.06		.14		.22			.23					.57		.08					*	.05	.32				*	*	.26			3.78
Lawrenceville	N. Br. Susq.	.90		T.	.05		.25		.25	.10	T.	T.	T.		.50	T.										.05	.15	T.	1.00	T.			2.85
Lebanon	Lower Susq.	1.00	.17	T.	T.		.51	T.	.12	T.					.05	T.						.24	.26		.04	.71		.25	.05		.02		3.42
Lewisburg	W. Br. Susq.	1.35		.10		.18	T.	.12	.71	.10	T.				.97	.01	T.					T.	.45	.03					.46				5.28
Lloyd	W. Br. Susq.	1.30	.92	.01		.26			.23	.06					.52	.09	.08						.25							.32			2.74
Lock Haven	W. Br. Susq.	1.00			.05	.14			.17						.88	.10	.08																3.44
Lykens	Susquehanna	1.22		.03	.20	T.			.51	.27	T.				.11	.07	T.					.50	.45		.80	.02			.25	T.		4.43	
Marcus Hook	Lower Del.	1.11		.15	.09				1.20	.23					.08	.03						.29		.03					.26				4.54
Mauch Chunk	Lehigh	1.47		.03	.15			.02	.45	.25					.92		T.						.59	.04		.96			.53				5.41
Millintown	Juniata	1.26		.14	.05		.02		.58	.02					.30		.13					.09	.11			.82			.43				3.95
Montrose	N. Br. Susq.	.25		.25					.50	.20					.80			T.					.40						.70				3.60
Mount Pocono	Upper Del.																																
Mount Union	Juniata	.96		.05		T.	.02		.53						.32								.36						.48		T.		3.29
Muncy Valley	W. Br. Susq.	1.60		.05	T.	T.	.23		.58						.95	.26						.05	.30	.10		.92			.36				5.02
Narberth	Lower Del.	1.44		.04	.27	T.		.03	.81	.07	T.				.20	T.						.09	.11	.40		.50	T.		.34				4.70
Neshaminy|||	Lower Del.	.68	.70		.45				.85		.17				.20			T.					.30	.35			1.00		.28	.06			5.04
Palmerton	Lehigh	.99		.23				.10	.32	.07	T.	T.																					

Daily Precipitation for January, 1923. - Continued from page 3.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Falls Creek.....	Allegheny.....	.58		.06	.05	T.	.21		.15	.26	.11		.12		1.14	.15	.19					.51			.31				.66			4.50	
Franklin|||	Allegheny.....	.40		.04		.02	.10	.10	.38	.14	.38			.07	.38	.88	.08	.08				.95			.12	.20			.50	.08		4.90	
Freeport|||	Allegheny.....	.63		.03	T.		.06		.51	.08	.08	.08	.04		.51	.88	.08	.08				.72	.09		.51	T.			.59	.10		T.	5.07
Greensburg.....	Youghiogheny.....	.67		.03	.03	.02	.09		.39	.30	.06		.02	.05	.40	.12	.03	.02				.09	.56	.12	.29	.05	.03	.04	.79		.01	4.21	
Greenville.....	Beaver.....	1.68		T.		*			1.08			*			1.28	.14						.86			.28			.60			5.92		
Grove City.....	Beaver.....	.37		T.	T.	T.	.32		.16	.40	.14	.05	.01	.01	.63	.18	.07	.02			.23	.78	T.	.23	.15	.07	T.	.20	.02	.01	.01	4.06	
Herr's Isl. Dam|||	Ohio.....	.28	T.	T.	.01	.01	.02	.08	.45	.05	.06	.01	T.	.01	.18	.47		.05	T.			.52	.19	T.	.10	.15		T.	1.06	.05	.01	3.76	
Indiana.....	Conemaugh.....	.80		.10	.10		.50		.32		.36		.15		1.07	.25					.55	.55		.95	.12			.05	.32		.05	6.12	
Ingram.....	Ohio.....	.28		T.	T.	T.	.10		.50	.10	.06	T.	.01		.64	.05	.01	.02			.17	.58		.22	.02	.02	.08	1.01		.01	3.88		
Irwin.....	Youghiogheny.....	.47		.03	T.	.02	.12	.52	.12	.02		.03		.44	.03	T.	.02				.02	T.		.30		.12	.07	.80	.01	.05	3.19		
Johnstown.....	Conemaugh.....	.58		.10	.10	.01	.15		.54	.36	.14		.10	.02	.77	.08	.14	.04	T.		.18	.50	.01	T.	.50	.03	T.	.10	.84	.04	.01	5.34	
Ketner.....	Allegheny.....	.45		.03	.06	.05	.37		.06	.24	.08	.03	.04	.02	.92	.03	.40				.09	.52		.12	.07		.05	.47	T.		.01	4.19	
Linesville|||	Beaver.....			.18			.35		.42	.25	.45	.25		.02	.48	.58	.05	.32				.72		.02	.11	.03		.03	.37			4.63	
Lock No. 4|||	Monongahela.....	.48		.02		.02	.05	.03	.48	.10	.16	T.	.03		T.	.34	.03					.42	.45		.12	.10		.05	.47	T.	.01	3.36	
Lycippus.....	Conemaugh.....	1.00		.05		.03	.09		.45	.19	.13			.06	.30	.18	.07				.18	.59	.28	.42	T.	.05	.24	.65				4.96	
New Castle|||	Beaver.....	.30					.18	.06	.15	.27	.22	.06			.50	.40	.03					1.10		.03			.65					3.95	
Newell.....	Monongahela.....	.46		T.			.07	.16	.20		T.				.28						.14	.52		.16		.03	.26	.23		T.	2.51		
North Shenango|||	Beaver.....	.57		.15			.20	.08	.40	.23	.18	.14	.10	T.	1.70		.30	.18	.03			.22	.62		.12			.35	.08		T.	5.65	
Parkers Landing|||	Allegheny.....	.63		.03	T.	T.	.10	.30	.30	.10	.30	T.	.10	.10	1.40	.05	.10					.80		T.	.03	.20		.65	.05		T.	5.29	
Pennline|||	Beaver.....	.13		.15				.17	T.	.24	.11	.02		.09	.44	.76	.08	.08				.62		.01	.09	.12		.30	.05			3.51	
Pittsburgh***	Ohio.....	.21		T.	T.	T.	.12	.39	.05	.01	T.	T.			.57	.01	.02	.02				.14	.52		.24	T.	T.	.30	.76		T.	3.47	
Ridgway.....	Allegheny.....	.44					.40		.22	.33					1.03		.44				.11	.35		.28			.44				T.	4.09	
Saltsburg|||	Conemaugh.....	.64		.03	.01	.03	.06	.10	.31	.28	.14	.03	T.	.07	.15	.82	.12	.03	T.			.37	.38		.10	.28		1.10	.08	T.	5.14		
Saegertown.....	Allegheny.....	.25			.13		.20		.23		.55		.05		1.10	.10	.34				.30	.54		T.	T.			.52				4.43	
Sharon|||	Beaver.....	.23		T.		T.	.13	T.	.22	.13	.11	.02	T.	.05	T.	.97	.03	T.	.02			T.	.73	T.	T.	T.	.16		.23			3.01	
Somerset.....	Youghiogheny.....	.60		.30		.10	.12	.15	.60	.20	.42	T.	T.		.15	.55					.62	.26		.15	.60			T.	.65			5.59	
Springdale|||	Allegheny.....	.39		.03	T.	.01	.06	.04	.41	.05	.08	T.	T.	.01	.41	.92	.02	.02	T.			.66	.21		.23	.12		T.	.95	.05	.02	4.67	
Stoyestown.....	Conemaugh.....	.65	.02	.09	.07	.04	.11	.10	.35	.21	.16	.07	.02	.06	.43	.16	.32	.26				.12	.37	.27		.70		.03	.08	.67	.02		5.39
Summit|||	Beaver.....	.37				.20		.52	.12	.15	.01			1.05	.10	.16	.02					.56	.05	.14				.15	.16			3.78	
Tionesta.....	Allegheny.....	.10				.07	.12		.23		.43	.08			1.50	.70		.38				.81						.08				.05	4.86
Turnerville|||	Beaver.....		.20			.30		.15			.10				1.10							1.30			1.05			.40				4.65	
Uniontown.....	Monongahela.....	.68		.05	T.		.15		.35	.19	.08				.38	.14	.08	.02		T.		.11	.60	.21		.12	.06	.02	.04	.40		3.60	
Unity Reservoir|||	Youghiogheny.....	.89		.06	.01	T.	.15		.41	.29	.11		.04	.10	.37	.18	.04	.04				.05	.50	.25		.33	.07	.04	.09	.47	.20	.04	4.78
Vandergrift.....	Conemaugh.....	.50		.05	.04		.19		.52	.10	.04		.04		.10	.12					.18	.60	.05	.33				.05	.83			3.73	
Warren.....	Allegheny.....	.22		.02	.12		.10		.10	.14	.02	.04	.02	.02	.70	.22	.10					.24	.04		.05			.40				2.54	
Washington.....	Ohio.....	.24		.01	.02		.09	.32	.25	.10	.02	T.			.35	.01	.03	T.			.22	.60		.18			.05	.25	.27		.12	3.15	
Waynesburg|||	Monongahela.....	.56	T.			.07		.32	.02	.15	.04				.40	....	.01				.52	.45		.11	.07		.04					3.03
Westford|||	Beaver.....	T.				T.	.27		.29	.19	.27	T.	T.		.65	.57		.18	.40			.80			.10	.08		.52				4.31	
West Newton|||	Youghiogheny.....	.49		T.	T.	T.	.04		.31	.04			T.	T.		.30	T.	T.				.34	.33		.19	.05		.08	.54		T.	2.72	
Lake Drainage.																																	
Erie***	Lake Erie.....	T.	T.	.09	T.	.01	.5122	.12	.02	T.	.02		.44	T.	.09	T.				.32	.27	.03		.17		T.	.04	.32	T.	T.	2.67
West Bingham.....	Genesee.....	.50			.05		.32	T.	.10	.30	.10	.10	.20		.50		.10					T.	.05			.15				.70	.10		3.27

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. ¶ Post Office address:—Greensburg

Daily Temperatures for January, 1923.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
Allentown.....	Maximum ... 50	40	37	37	34	38	29	37	38	36	34	39	33	37	39	36	19	42	39	43	47	35	29	36	38	33	38	32	36	28	28	36.0	
	Minimum ... 31	29	31	27	27	17	16	18	27	19	19	18	20	23	11	10	11	16	18	18	20	17	19	19	23	18	17	18	5	9	19.0		
Altoona.....	Maximum ... 43	42	34	34	35	37	34	32	36	32	27	39	30	29	39	32	19	35	47	34	41	40	25	25	34	39	35	36	35	32	28	34.2	
	Minimum ... 35	25	29	25	25	24	16	20	29	23	6	22	19	10	29	19	8	9	24	15	32	21	6	20	25	22	28	28	28	15	12	21.0	
Catawissa.....	Maximum ... 41	44	37	35	34	38	31	36	37	35	34	38	38	35	38	34	27	40	40	43	41	39	34	34	41	30	39	37	36	36	32	36.0	
	Minimum ... 35	30	24	32	23	25	22	23	30	30	16	28	14	13	28	27	9	4	21	9	35	29	12	20	28	12	22	24	24	9	-1	21.2	
Chambersburg.....	Maximum ... 44	43	33	36	40	39	38	38	39	39	33	40	38	34	38	35	26	38	47	33	38	39	30	29	40	38	47	40	49	34	27	36.8	
	Minimum ... 33	23	27	29	24	21	22	19	32	29	13	18	24	16	30	25	14	16	31	20	31	28	16	21	26	15	32	31	32	14	12	23.4	
Emporium.....	Maximum ... 49	40	36	35	35	33	28	33	37	33	31	36	31	36	36	32	18	48	38	39	42	35	28	30	33	33	36	36	31	31	29	34.8	
	Minimum ... 29	22	28	27	26	20	1	24	30	26	20	26	17	9	29	15	4	4	15	12	35	18	5	23	28	25	28	25	28	12	1	19.7	
Erie.....	Maximum ... 47	38	39	28	33	30	33	33	36	30	36	36	29	43	35	30	25	49	32	46	46	26	30	35	30	35	33	33	29	29	38	84.6	
	Minimum ... 30	28	27	22	27	8	8	29	30	25	22	22	22	26	30	11	7	25	21	28	26	21	15	26	26	27	25	26	24	14	28	22.8	
Grove City.....	Maximum ... 48	43	37	35	33	31	35	34	35	31	31	38	32	40	42	33	39	34	21	42	45	36	44	40	30	33	39	36	39	38	38	36.4	
	Minimum ... 21	25	33	24	24	19	11	27	29	23	2	25	19	14	28	18	9	14	18	31	31	19	10	24	26	25	28	31	27	17	25	21.8	
Harrisburg.....	Maximum ... 47	41	36	37	36	35	29	38	39	36	35	40	35	33	39	34	21	42	45	36	44	40	30	33	39	36	39	39	38	38	31	28	36.6
	Minimum ... 33	30	32	31	28	29	19	21	33	29	24	29	26	24	33	21	13	18	27	23	36	26	22	20	30	25	31	25	31	21	14	25.9	
Holtwood.....	Maximum ... 47	35	47	35	52	52	32	43	39	36	45	43	37	36	41	35	30	41	40	43	58	40	30	33	48	39	40	36	39	30	32	39.8	
	Minimum ... 30	23	28	25	25	25	26	32	32	32	31	26	28	19	19	33	22	16	16	24	24	40	32	19	23	28	23	31	28	30	17	17	25.5
Indiana.....	Maximum ... 50	46	40	35	35	37	33	35	39	33	33	42	36	42	45	33	21	50	50	40	51	35	27	34	34	35	36	37	34	38	37	37.8	
	Minimum ... 28	20	34	25	25	27	21	27	30	16	9	26	21	18	30	20	10	13	22	24	34	19	10	23	28	26	29	32	28	17	26	23.0	
Mifflintown.....	Maximum ... 41	46	35	36	36	37	36	36	37	38	35	39	41	31	37	36	26	35	46	36	36	49	35	35	32	34	38	38	39	36	25	36.7	
	Minimum ... 32	26	28	29	26	24	23	22	32	31	23	24	24	15	31	24	11	19	30	20	34	29	15	23	26	22	27	29	32	19	5	24.4	
Philadelphia.....	Maximum ... 53	42	38	40	38	46	30	42	41	42	39	37	45	36	42	45	40	25	42	44	51	59	48	31	40	42	39	42	32	39	32	36	40.5
	Minimum ... 37	32	33	32	28	30	24	29	35	29	26	33	28	29	27	25	14	13	27	43	28	23	24	32	28	32	24	26	22	19	28.3		
Pittsburgh.....	Maximum ... 49	45	43	32	36	40	42	41	42	30	47	46	34	48	36	32	23	55	40	51	51	30	32	36	35	37	39	36	41	46	39	38.9	
	Minimum ... 30	27	31	26	29	26	27	33	29	22	20	26	25	31	32	15	11	23	25	34	28	22	20	30	31	29	35	32	28	26	84	27.0	
Reading.....	Maximum ... 52	41	37	37	35	40	28	37	40	36	34	40	35	34	39	34	21	41	44	41	50	41	30	35	39	34	39	30	36	30	25	36.0	
	Minimum ... 34	32	32	31	28	28	20	25	33	28	22	30	26	25	33	21	13	14	27	21	41	27	21	21	28	25	30	25	25	17	12	25.6	
Seranton.....	Maximum ... 49	38	35	34	33	34	24	34	37	36	29	38	29	38	34	36	34	14	37	37	44	44	38	26	31	35	31	32	28	29	22	27	33.2
	Minimum ... 33	30	29	25	25	24	18	20	32	24	23	23	16	14	32	14	6	7	17	17	38	22	18	18	21	21	25	18	20	4	0	20.5	
Somerset.....	Maximum ... 45	47	39	35	32	38	36	33	35	28	30	28	30	40	30	28	16	48	35	40	48	40	30	31	24	38	34	38	33	40	42	35.2	
	Minimum ... 24	21	30	20	20	23	20	26	22	19	0	21	18	20	15	14	4	13	25	35	40	30	18	20	21	21	22	20	25	24	26	21.4	
State College.....	Maximum ... 43	37	35	34	35	37	23	32	35	33	28	36	28	31	34	31	18	37	45	37	43	36	25	26	35	36	35	37	35	28	20	33.1	
	Minimum ... 30	23	29	24	23	21	13	19	28	25	18	25	19	15	29	18	3	6	22	16	33	22	9	18	23	21	25	24	27	14	5	20.2	
Towanda.....	Maximum ... 42	36	34	33	35	34	23	33	37	37	27	37	27	30	36	33	18	35	40	39	44	38	25	28	34	29	30	27	29	21	28	32.2	
	Minimum ... 33	26	25	24	23	18	8	22	23	23	20	25	11	2	30	18	1	4	12	7	36	23	15	17	19	7	23	20	19	-3	-12	17.1	
Uniontown.....	Maximum ... 53	47	46	36	35	35	39	41	43	34	43	49	35	48	48	34	22	53	54	51	55	38	30	36	36	37	40	49	48	41	49	41.8	
	Minimum ... 32	24	35	28	30	28	29	32	34	27	15	30	26	26	33	21	9	19	28	29	38	26	18	28	31	29	34	36	32	24	35	27.8	
Warren.....	Maximum ... 42	41	36	33	30	28	28	29	36	30	29	31	29	37	37	29	24	41	41	30	42	30	26	30	30	31	31	32	30	36	33	32.6	
	Minimum ... 29	25	30	21	24	16	3	25	28	24	18	24	15	11	29	15	0	13	28	25	30	26	8	24	25	25	30	25	12	25	21.2		
Wellsboro.....	Maximum ... 35	34	30	32	32	32	23	33	33	34	25	35	25	27	32	30	17	32	48	35	43	35	21	27	32	31	32	32	25	25	30.5		
	Minimum ... 29	22	22	22	20	10	8	20	22	20	16	22	12	-1	26	15	-3	-2	12	4	33	19	9	16	25	10	31	19	20	-3	-12	14.9	
Williamsport.....	Maximum ... 41	40	39	35	31	33	27	34	36	37	30	37	35	30	36	35	27	34	40	36	39	38	29	25	37	31	34	31	34	35	30	34.1	
	Minimum ... 34	29	28	30	27	26	17	24	30	29	19	26	24	13	28	25	9	9	14	20	34	26	16	20	25	17	26	24	24	18	1	22.3	

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXVIII. FEBRUARY, 1923. No. 2.

GENERAL SUMMARY.

This was a cold, gloomy month with little sunshine and many stormy days, but the rains and snows were mostly light. The weather was generally unfavorable for outdoor work. In the central part of the State there was a heavy snow cover that held over from the January storms, and the winter grains were well protected throughout the month except in the region southeast of the mountains and in a few counties in the western part of the State north of the Ohio River. In the forest regions of central Pennsylvania there was too much snow for lumbering operations during a large part of the month.

Temperatures were somewhat above normal on the first three days, and again on the 8th and 9th, the 13th, and during the last four days of the month. On other dates the temperature was generally below normal, and there was a decidedly cold period that began with a sharp cold wave on the night of the 14th and continued until the 24th with some moderation on or about the 21st. During this period minimum temperatures of zero to twenty below occurred in the elevated sections, while all the daily maximum temperatures with but few exceptions were below freezing throughout the State. The average temperature for the month was the lowest for any February since 1914.

TEMPERATURE.

The average temperature for the State, as determined from the records of 79 stations, was 24.6°, or 2.7° below the normal. The highest monthly mean temperature was 30.0° at Philadelphia, and the lowest was 17.6° at West Bingham and Wellsboro. The highest maximum temperature was 58° at Newell and Uniontown on the 3d, and the lowest minimum temperature was -20 at Saegerstown on the 24th.

PRECIPITATION.

The average precipitation for the State, as determined from the records of 122 stations, was 2.16 inches, or 0.70 inch less than normal. The distribution was quite uniform, only a few stations recording a total of more than 3.00 inches or less than 1.25 inches. The greatest monthly total was 4.80 inches at Elk Lick, and the least was 0.65 inch at Montrose. The greatest amount for a 24-hour period was 1.76 at Elk Lick on the 12-13th.

The snowfall was not heavy, considering the marked deficiency in temperature, although it was a little more than the February average. The average obtained from the records of 73 stations was 11.7 inches, as compared with an average of 17.6 inches for January of this year, 18.3 inches for February, 1920, and 15.4 inches for February, 1921. The greatest snowfall for the month was 30.0 inches at Gordon, and the greatest daily snowfall was 9.0 inches at Freeland on the 13th. The principal snowstorms of the month occurred on the 6th, 11th, and the 20th.

Moderately heavy rain occurred on the 13th, which changed to snow at most stations. The total precipitation in this storm was less than 1.00 inch over fully three-fourths of the State.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.		
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.
Erie.....	157.7	296.6	53	76	78	9,950	14.8	64	w.
Harrisburg.....	140.8	299.7	47	74	67	5,133	7.5	38	w.
Philadelphia.....	134.6	299.7	45	74	65	7,191	10.7	34	nw.
Pittsburgh.....	101.6	298.2	34	81	73	8,723	13.0	62	w.
Reading.....	160.0	299.7	53	77	75	5,058	7.5	36	nw.
Scranton.....				80	72	4,970	7.4	42	sw.

* For any five-minute period.

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	23.4	63	-31	2.50	4.97	0.89	7	11	11
1889.....	23.0	60	-27	1.96	3.87	0.97	7	9	12
1890.....	37.0	79	0	4.32	6.39	2.28	6	8	14
1891.....	34.8	70	-7	4.61	8.29	2.13	6	8	14
1892.....	31.6	62	-13	1.75	4.48	0.43	7	7	15
1893.....	27.3	60	-16	5.92	9.28	2.92	6	8	14
1894.....	27.6	64	-24	3.53	5.59	1.62	8	9	11
1895.....	20.2	60	-26	1.22	3.47	0.17	10	10	8
1896.....	29.4	65	-21	4.90	9.08	1.94	9	7	13
1897.....	30.6	67	-14	3.28	6.67	1.04	7	8	13
1898.....	29.4	72	-16	2.23	4.05	0.96	8	8	12
1899.....	22.7	67	-39	4.05	10.22	0.98	8	7	13
1900.....	27.1	81	-17	4.22	7.75	1.00	8	6	14
1901.....	21.7	57	-22	0.96	2.75	0.27	10	9	9
1902.....	23.9	64	-24	3.99	7.43	0.45	9	7	12
1903.....	30.5	68	-17	4.49	6.13	1.80	10	7	11
1904.....	21.8	68	-27	2.41	4.80	0.92	10	7	12
1905.....	20.8	59	-25	1.70	2.83	0.44	10	8	10
1906.....	28.0	79	-21	1.70	3.80	0.36	12	7	9
1907.....	22.8	56	-20	1.91	4.37	0.66	12	7	9
1908.....	24.8	64	-29	4.65	8.15	2.51	10	7	12
1909.....	35.8	73	-9	4.84	9.86	2.40	6	7	15
1910.....	26.6	65	-22	3.59	5.39	1.41	9	7	12
1911.....	31.0	66	-8	2.27	3.76	0.85	7	6	15
1912.....	23.7	69	-27	2.20	4.05	0.37	11	8	10
1913.....	27.4	67	-9	1.84	4.61	0.88	12	5	11
1914.....	21.8	65	-27	2.78	6.20	1.30	11	6	11
1915.....	33.3	73	-9	3.90	6.95	1.85	9	5	14
1916.....	25.7	67	-22	3.08	5.86	1.30	8	7	14
1917.....	25.6	68	-29	1.46	3.37	0.35	9	9	10
1918.....	28.2	69	-34	2.46	4.82	0.55	10	8	10
1919.....	32.0	66	-7	2.23	4.27	1.03	12	6	10
1920.....	25.6	62	-20	2.44	5.23	0.70	9	8	12
1921.....	32.8	76	-15	2.59	4.79	1.41	8	8	12
1922.....	33.0	74	-19	1.99	3.61	0.67	9	9	10
1923.....	24.6	58	-20	2.16	4.80	0.65	8	8	12

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	5.3	6.5	5	4.1	15	18
Phillipsburg.....	Delaware.....	2.3	3.0	1	1.6	26	22
Mauch Chunk.....	Lehigh.....						15
Wilkes-Barre.....	Susquehanna.....	4.6	6.3	6	3.5	26	20
Williamsport.....	Susquehanna.....						20
Harrisburg.....	Susquehanna.....						17
Freepport.....	Allegheny.....	8.1	12.2	28	5.2	12	22
West Newton.....	Youghiogheny.....	4.1	9.3	14	1.7	12	20
Lock No. 4.....	Monongahela.....	17.1	29.1	2	13.6	25	20
Pittsburgh.....	Ohio.....	10.4	17.0	3	7.1	26	22
Beaver Dam.....	Ohio.....	11.4	21.6	3	6.1	20	30

Climatological Data for February, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 0.1 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Allentown	Lehigh	254	11	24.4	.....	43	25	7	7	31	2.34	-0.67	0.89	.....	12	7	14	7	e.	John A. Frick.
Altoona	Blair	1,615	36	24.4	-1.4	50	13	-3	15	29	1.68	-0.43	0.45	10.0	14	13	7	8	nw.	Lewis E. Biller.
Arendtsville	Adams	700	4	27.4	.....	48	9	4	18	34	1.78	.....	0.95	6.2	11	5	12	11	w.	R. C. Walton.
Bethlehem	Northampton	295	39	.....	.....	.....	.....	5	8	.....	2.43	-1.06	0.78	13.5	10	.....	.....	.....	w.	E. E. McColm.
Bustleton	Philadelphia	125	4	.....	.....	.....	.....	4	8	.....	2.79	.....	0.98	6.2	13	8	5	15	n.	Experiment Station.
Carlisle	Cumberland	467	56	27.0	-2.4	48	25	5	18	39	2.35	-0.62	0.95	11.0	13	11	3	14	ne.	Prof. C. E. Miller.
Catawissa	Columbia	520	26	25.4	-3.7	52	13	1	24	41	1.77	-0.91	0.58	12.0	14	8	7	13	nw.	H. H. Yetter.
Center Hall	Center	1,272	27	22.5	-3.4	49	13	-3	6	31	1.29	-1.01	0.36	13.0	7	16	3	9	.....	S. W. Smith.
Chambersburg	Franklin	580	23	27.7	-3.1	50	25	5	8	34	1.92	-0.99	1.02	7.6	12	5	12	11	ne.	William B. Spear.
Clearfield	Clearfield	1,120	13	25.6	-1.9	53	13	-5	24	37	3.10	+0.41	0.70	16.1	15	12	8	8	nw.	E. W. Hess.
Coatesville	Chester	380	35	25.4	-4.5	47	9	2	8	33	2.53	-1.57	1.17	7.2	11	4	14	10	w.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	13	25.3	.....	44	9	3	24	30	2.17	-0.71	0.92	11.4	14	10	5	13	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	35	21.2	-3.5	47	13	-15	24	45	3.16	+0.29	0.65	15.2	12	8	10	10	w.	T. B. Lloyd.
Ephrata	Lancaster	380	22	26.7	-1.4	46	25	5	8	33	2.08	-1.08	0.86	13.0	10	5	12	11	s.	E. K. Hershey.
Everett	Bedford	1,040	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thropp Co.
Freeland	Luzerne	1,970	8	18.0	.....	42	13	-10	24	34	2.66	.....	0.85	23.3	14	6	12	10	nw.	Theo. Reichmann.
George School	Bucks	190	16	25.6	-4.1	46	9	-3	8	37	2.92	-0.18	1.10	10.5	13	13	10	5	w.	Prof. N. W. Swayne.
Gettysburg	Adams	600	49	29.0	-1.3	52	25	5	18	32	2.23	-0.58	1.15	11.0	11	7	9	12	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	19	22.5	-2.8	44	13	-2	6	42	2.27	-1.20	0.72	30.0	13	11	4	13	nw.	Capt. J. G. Johnson.
Hamburg	Berks	535	30	24.2	-4.6	43	25	1	8	36	2.95	-0.44	0.50	13.4	17	14	5	9	w.	State Sanatorium.
Hanover	York	600	19	29.2	-2.5	50	25	6	18	26	1.74	-1.00	1.00	3.9	10	9	11	8	w.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	53	27.0	-2.9	46	25	7	18	25	1.84	-0.86	0.72	10.4	13	4	10	14	w.	U. S. Weather Bureau.
Hawley	Wayne	900	4	20.4	.....	45	27	-10	6	48	1.96	.....	0.55	21.4	10	.....	.....	.....	.....	J. S. Pennell.
Huntingdon	Huntingdon	650	35	27.0	-1.4	50	13	2	6	34	2.15	-0.69	0.85	.....	7	12	13	3	.....	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	3	24.6	.....	45	12	-5	24	35	1.83	.....	0.50	18.1	12	18	3	7	.....	C. B. McCullough.
Lancaster	Lancaster	255	35	28.7	-1.1	48	25	6	8	36	2.39	-0.29	0.93	8.3	11	14	7	7	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	25	22.2	-0.8	52	13	-8	24	38	0.80	-1.03	0.20	11.0	7	6	14	8	s.	C. P. Darling.
Lebanon	Lebanon	469	82	25.2	-3.5	47	25	5	18	41	2.10	-1.37	0.90	12.3	12	11	7	10	w.	S. B. Benzing.
Lewisburg	Union	450	48	23.9	-1.9	48	26	-5	21	46	2.00	-0.79	0.65	17.5	12	11	5	12	w.	Prof. W. G. Owens.
Lykens	Dauphin	680	8	24.4	.....	46	25	-3	6	39	1.80	.....	0.68	12.0	13	14	4	10	nw.	Susquehanna Collieries Co.
Marcus Hook	Delaware	50	3	29.0	.....	54	25	6	18	32	2.45	.....	1.43	5.6	10	6	12	10	w.	Gen. Chemical Co.
Mauch Chunk	Carbon	600	33	23.8	-3.2	42	2	1	6	26	1.87	-2.00	0.70	15.2	11	14	2	12	w.	R. K. Wintermute.
Mifflintown	Juniata	445	19	26.4	-0.3	47	8	3	6	37	1.59	-0.75	0.54	13.0	12	6	4	18	w.	Wellington Smith.
Montrose	Susquehanna	1,658	20	17.9	-2.4	40	13	-7	18	33	0.65	-1.42	0.35	8.0	3	11	3	14	w.	Silas Jagger.
Muncy Valley	Sullivan	1,045	11	20.4	.....	44	13	-10	24	36	1.29	-1.08	0.29	12.8	12	5	15	8	sw.	A. H. Boatman.
Narberth	Montgomery	300	4	27.3	.....	50	25	6	24	26	2.82	.....	1.21	9.4	13	10	5	13	nw.	Charles Decker.
Neshaminy Falls	Bucks	60	34	24.2	.....	49	9	-4	8	48	2.06	.....	1.15	8.0	11	11	2	15	s.	North Springfield Water Co.
Palmerton	Carbon	398	6	24.3	.....	47	2	-2	19	41	1.03	.....	0.50	12.7	4	13	10	5	sw.	F. G. Breyer.
Philadelphia (a)	Philadelphia	117	52	30.0	-3.9	51	25	10	24	28	2.71	-0.67	1.25	8.2	13	3	11	14	nw.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	7	28.8	.....	50	25	9	24	27	2.40	.....	1.05	7.5	8	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville	Chester	100	12	26.6	.....	48	26	-2	8	39	2.41	.....	0.82	7.5	9	7	17	4	nw.	North Springfield Water Co.
Quakertown	Bucks	496	38	23.6	-4.6	43	13	-9	8	48	2.32	-0.44	0.84	15.1	13	7	12	9	nw.	John E. Benner.
Reading	Berks	325	53	26.8	-2.0	46	25	8	18	29	2.38	-1.12	0.96	12.8	17	8	9	11	nw.	U. S. Weather Bureau.
Seranton	Lackawanna	805	28	23.0	-3.9	47	13	4	24	30	1.58	-1.14	0.44	14.4	17	3	11	14	sw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	33	25.2	-1.9	43	25	0	21	37	1.56	-1.38	0.65	14.2	9	9	9	10	w.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	27	28.1	.....	44	25	9	24	24	2.66	.....	1.20	9.0	11	10	8	10	nw.	W. S. Guiles.
State College	Center	1,217	38	23.1	-2.4	50	13	-2	61	32	2.24	-0.55	0.65	17.0	15	5	11	12	w.	C. A. Kern.
Towanda	Bradford	754	28	20.8	-2.8	42	13	-3	6	38	1.18	-0.73	0.28	8.6	16	3	9	16	nw.	Hiram E. Bull. C. E.
Wellsboro	Tioga	1,419	57	17.6	-7.0	42	14	-13	24	39	1.24	-1.11	0.57	14.5	9	13	5	10	w.	George W. Hill.
West Chester	Chester	455	85	27.0	-3.8	47	25	5	24	23	2.30	-1.60	1.05	6.5	12	14	6	8	nw.	Arthur M. Hay.
Williamsport	Lycoming	521	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacob April.
York	York	400	35	29.4	-0.2	52	25	6	18	36	1.26	-1.77	0.62	10.0	9	11	5	12	s.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	30	28.4	.....	56	2	3	18	31	2.28	-0.03	0.61	10.1	18	6	4	18	sw.	U. S. Engineer.
Bradford	McKean	1,427	8	19.8	.....	47	3	-15	24	37	2.03	.....	0.45	9.2	18	4	13	11	w.	City Engineer.
Bradys Bend	Armstrong	930	5	21.8	.....	50	3	-15	24	44	2.36	.....	0.45	10.8	16	7	6	15	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	32	21.3	-3.0	48	13	-5	7	44	2.20	-0.25	0.50	10.5	12	12	9	7	.....	John Fawcett.
Claysville	Washington	1,150	19	27.0	-2.8	55	13	-3	24	36	1.81	-0.68	0.57	3.0	16	12	5	11	n.	J. L. Melvin.
Corry	Erie	1,430	11	20.2	.....	45	3	-12	24	35	2.29	.....	0.51	17.9	21	7	10	11	n.	Nevin R. Dickson.
Derry	Westmoreland	1,172	26	26.0	-2.1	55	3	-5	18	39	3.77	+0.78	0.89	21.5	20	7	11	10	w.	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	5	22.1	.....	50	3	-10	15	34	2.40	.....	0.80	.....	13	9	6	13	w.	D. H. Jones.
Elk Lick	Somerset	2,680	6	23.6	.....	52	1	-1	15	34	4.80	.....	1.76	25.5	9	8	3	17	w.	J. S. Stevanus.
Franklin	Venango	957	50	22.0	-2.6	51	2	-8	24	43	2.13	-0.76	0.50	8.0	14	9	2	17	nw.	F. E. Dixon.
Greensburg	Westmoreland	1,150	15	26.6	-3.4	55	3	-1	24	37	3.43	+0.57	0.74	15.2	20	5	6	17	sw.	

Daily Precipitation for February, 1923.

Stations	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown	Lehigh			.15			.45				.18	.07		.89	.08						*	.03	.10	.02	.06				.31				2.34
Altoona	Juniata	.15	.07	.06			.07				.14	.15		.45	.05	T.	T.					.12	.01	T.		.07	.27	.01					1.68
Ansonia	W. Br. Susq.			.34			.10				.06	.17		.26		T.	T.					.06	.03	T.		.04	T.	.13	.04				1.28
Arendtsville	Potomac	.05		.11			.28				.09	.02		.95	.08							.13		T.		.01	.06	T.					1.78
Bellefonte	do.		.21				.42				.40			.27	.12							.45	.18		T.	.11	.10						2.26
Bethlehem	Lehigh		.07	.14			.53				.20	.09		.78								.15					.03	.34	.10				2.43
Bloersville	Lower Susq.	.20	T.				.35	.07			.30			.45								.20					.02	.26	.06				1.71
Bustleton	Lower Del.	.53	.01				.33	.07			.03	.35		.98	.02							.12	.01				.03	.15	.03				2.79
Carlisle	Lower Susq.	.12	.03	.02			.20	.32			.16	.10	T.	.95	.06							.18	T.	T.			.03	.15	.03				2.85
Catawissa	N. Br. Susq.	.01	.13	.01			.33	T.		.02	.21	.04	.58	.01							.02	.10			.07	T.	.20	.04					1.77
Center Hall	Susquehanna			.04			.12	.25			.20	.22		.36								.10											1.29
Chambersburg	Potomac	.15	.03				.17	.10			.09	.04		1.02	.07							.12		T.		.05	.06	.02					1.92
Clearfield	W. Br. Susq.	.05	.30	.70			.18			T.	.20	.22		.56		T.						.10		.08	.10	.08	.23	.22	.07				3.10
Coatesville	Lower Del.	.13					.42	.08			.02	.10		1.17	.19							.08					.02	.25	.07				2.53
Colebrook	Lower Susq.	.08	.01	.02			.51				.17	.04	T.	.92		T.						.03	.18	.01	T.		.03	.15	.02				2.17
Cresson	Juniata	.19	.06				.24			.25	.23	.75		.88	.17	.07	.05	.03	.01	.07	.05	.09	.07	.01	.01	.34	.05	.01					2.62
Doylestown	Lower Del.			.30			.18	.23			.24	.15		.88								.06						.12	.10				2.13
Driftwood	W. Br. Susq.		.40	.30					.12		.12	.12	.20									.12						.60	.35	.06			2.39
Emporium	W. Br. Susq.		.32	.35			.10	.07		T.	.30	.20	.05	.30	T.	T.	T.	T.			T.	.40			.10		.65	.32	T.				3.16
Ephrata	Lower Susq.	.15					.46				.16	.06		.86	.12						T.	.05		T.	T.		.03	.16	.03				2.08
Everett	Juniata																																
Forest City	N. Br. Susq.		.31				.25				.08	.04		.37	.08						.07	.05	.03	.04			.27	.38	.09				2.06
Freeland	Lehigh	.03	.04	.17			.26				.24	.17		.85	T.		T.			.05	.04	.03	.18		T.		.08	.27	.25				2.66
George School	Lower Del.	.11	T.	.02			.05	.30			.16	.17		1.10	.05							.10		.50		.04	.27	.05					2.92
Gettysburg	Potomac	.20	.05				.05	.37			.07	.06		1.15	.07							.15					.03	.03	T.				2.23
Girardville	Susquehanna	.03	.08	.03			.34	.02		.10	.20	.05	.31	.31	.10	.07		.01		.03	.17	.12		.06	T.	.15	.15	.10					2.43
Gordon	Lower Susq.		.03	.13			.27				.12	.08		.72	.06						.10	.06	.30			.20	.06	.14					2.27
Gouldsboro	Lehigh			.16			.24				.18		.12	.54			.15						.18						.36				1.93
Graterford	Schuylkill	.02	.38	.21			.19	.68			.10	.16	.18							.03	.20	.07	.03			.06	.43	.34					3.08
Hamburg	Schuylkill	.02	.20	.20			.10	.50		.18	.05	.01		.30	.03						.30	.01	.04			.20	.20	.31	.30				2.95
Hanover	Lower Susq.	.15					.14	.13			.08	.01		1.00	.06						T.	.06					.03	.08					1.74
Harrisburg	do.	.12	T.	.01			.41	T.		T.	.18	.03	.41	.34							.06	.09		.04	T.		.05	.09	.01				1.84
Hawley	Upper Del.						.33				.25		.10	.55	.07							.12				.05	.34	.15					1.96
Holtwood	Lower Susq.	.13					.39				.10			.19	.19							.10	.20				.11	.03					2.54
Huntingdon	Juniata	T.	T.				.40	T.			.15	.15		.85	T.	T.	T.	T.				.25		T.		T.	.15	.20					2.15
Jersey Shore	W. Br. Susq.	.01	T.	.20			.02	.22			.25	.07	.21								.01	.16			T.	.50	.13	.05					1.83
Lancaster	Lower Susq.		.12	.04			.80				.12	.04		.93	.09						.03						.02	.17	.03				2.39
Lansford	Lehigh			.17			.20			*	.11	.10	*	.42	.13							.05	.10	.05			.15	.15					1.48
Lawrenceville	N. Br. Susq.		T.	T.			.10				.20	.20		.10		T.					.05	.10	.05		T.	T.	T.	T.	T.				0.80
Lebanon	Lower Susq.	.17	.02	.04			.34	T.		.14	.05		.90					T.	.02	T.	.05	T.	T.		T.	.22	.07						2.10
Lewisburg	W. Br. Susq.	.01	.03				.20	.20			.20	.09		.65							.07	.22	T.	T.		T.	.06	.17	.10				2.00
Lloyd	W. Br. Susq.	.01		.33			.01	.05	.12					.18							.16					.03	.08	.21					1.18
Lock Haven	W. Br. Susq.																																
Lykens	Susquehanna	.02	.01	T.			.09	.22			.13	.04		.68	.03							.15		.02	T.		.09	.24	.08				1.80
Marcus Hook	Lower Del.	.07					.40	.08					.71	.72	.14							.07	.01				.06	.19					2.45
Mauch Chunk	Lehigh		.15				.28	.03			.15	.10		.70	.07	T.						.10					.05	.11	.13				1.87
Mifflintown	Juniata	.02	.02	.06			.20	.20			.08	.09		.54								.10		.01			.08	.19					1.59
Montrose	N. Br. Susq.										.15			.15													.35						0.65
Mount Union	Juniata	.07		.23			.22				.05	.08	.78			.25				T.		.15					.11	.09	.06				2.13
Muncy Valley	W. Br. Susq.			.20			.04	.16			.06	.03		.29	.16		T.				.04	.05					.11	.09	.06				1.29
Narberth	Lower Del.	.17	.01	.04			.36	.12			.16	.13		1.21	.14	T.					T.	.09	T.	T.		.07	.24	.08					2.82
Neshaminy	Lower Del.	.01		.02			.24				.05	.25	.02	1.05	.10							.10	.05	T.			.20	.07					2.06
Palmerston	Lehigh	T.		.11			.50			T.	T.	T.	.32									.08		.01			.06	.15	.03				2.71
Philadelphia (a.)	Lower Del.	.15		.01			.54	.04		T.																							

Daily Precipitation for February, 1923.—Continued from page 7.

Stations.	Drainage Basin.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Franklin|||	Allegheny		.04	.40			T.	.04			.18	.02		.41		T.		.06	T.		.10			.02	.22	.02	.10	.50					2.13				
Freeport||	Allegheny	T.	.03	.18	T.			.12			.31	.16		.72	T.		.02	.06	.04		.10		.04	.03		.04	.18	.48	T.				2.51				
Greensburg	Youghiogheny	.10	.31	.14	T.		.08	.05		.01	.57	.20		.74	.09	.01	.02	.15	.05		.15		.07	.03		T.	.36	.25	.05				3.43				
Greenville	Beaver			*	.40		.02				.16			.52		*	.06			*		.16					T.	.55					1.87				
Grove City	Beaver	.01	.03	.01	.01		T.	.02	T	.08	.35	.02	.45		.02	.03	.04		.01		.10		T	.08		.35	.23						1.94				
Herrs Isl. Dam|||	Ohio	.02	.04	.05	T		.20	T	T.	.49	.08		.63				.01	.09	T		.10	.02	T	.01	T	T.	.09	.29	.04				2.16				
Indiana	Conemaugh	.10	.10			.10	.10	.27		.28	.27		.70								.10		.10			.37	.20	.10					2.79				
Ingram	Ohio	.05	.03	.06	T		.11	.02	.12	.29	.06	.68	.01	.01	T	T	.03	T		.13		.13	.02	.03		T	.37	.20	.01				2.23				
Irwin	Youghiogheny	.14	.16	.02	T		T.	.08		.05	.30	.18		.70	.01	T	T	T.	.01	.01	.01	.17		T.		.34	.25	.03					2.37				
Johnstown	Conemaugh	.23	.18	.14	.01		.21	.01	.02	.24	.27	.20	.74	T	.05	.01	.15	.01	.01	.17		.11	.01	.02	.01	.05	.25	.02					3.12				
Ketner	Allegheny		.15	.21			.04	.05		.08	.10	.11		.62	.05			.06		.03	.10				.04	.07	.28	.24	.03				2.41				
Linesville||	Beaver			.32	.02					.09			.45		.01	.08	.02	.04	.03	.15		.02	.05		.04	.06	.22						1.60				
Lock No. 4|||	Monongahela	.10	.12	.07			.08			T.	.22	.12		.75	.02	T		.02	.02		.08	.03		.02			.09	.35	.04				2.13				
Lycippus	Conemaugh	.18	.47	.20			.21			T.	.33	.25		.60		T	T.	.18	.08		.08		.04	.19			.10	.35					3.26				
New Castle|||	Beaver	.02	.01	.01		.02				.23			.41							.17		.12	T	T.			.21	.48					1.56				
Newell	Monongahela	.05	.04	.10			T			.19	.11	.94		T	T		T				.12	T	T			.30	.13	.01					1.99				
North Shenango|||	Beaver			.34						.08			.55			.10		T		.25	*	.13	.10				.14						1.59				
Parkers Landing|||	Allegheny	.02	.03	.10	T		.20		T	.50	.05		.54	T	T	.05	.05	T	.02	.10		.02	.10		.05	.15	.40						2.56				
Pennline|||	Beaver	*	.05	.14	.01	T				.08			.50		.04	.05	.07	.04	.05	.08	.03	.03	.02	.03		.25							1.42				
Pittsburgh***	Ohio	.04	.02	.04	T		.13			.40	.13	.05	.63	T	T	T.	.01	.04	T		.12		.02	.02	T	T	.40	.13	T				2.18				
Ridgway	Allegheny			.31						.16	.09					.01	.05	.03	.06	.06	.07	.07		.06		.86	.16						1.58				
Saltsburg|||	Conemaugh	.04	.12	.17	.02		.15		T	.34	.13		.84		.17	.05	.05	T		.06		.07		.25		T	.05	.37	.05				2.69				
Saegertown	Allegheny			.20					T	.28			.53	T	.17	.05	T					.25		.15			.15	.15					1.83				
Sharon|||	Beaver	.02		T	T		.13			.14			.34		T	T	T			.07		T	.08			T	.46						1.14				
Somerset	Youghiogheny	.31	.20	.15			.37			.25	.40		1.15		T	T	.13	.08		.35	.25	.40				.15	.26	.03					4.48				
Springdale|||	Allegheny	.02	.02	.09	T		.12		T	.35	.10		.65	T	.01	T	.02	.02	T	.09	T	T	.01		.01	.16	.49	.04					2.23				
Stoyestown	Conemaugh	.23	.23	.17			.10	.11		.13	.21		.86	T	T		.04	.07		.10		.02	.15		.03	.26	.27						2.98				
Summit|||	Beaver		.50	.15	.07				.12	.17			.51	.09	T	T	.05	.03		.07		.05	T		.03	T	.28						2.12				
Tionesta	Allegheny		.08	.35			.08		T	.13	.03		.46		T	T	T		.10	.05		.15		.52	T		.38						2.18				
Turnerville|||	Beaver			.10						.08			.31						.10				.15				.50						1.24				
Uniontown	Monongahela	.41	.10		T		.10	.04	T	T	.30	.18		.57	.08	T		.12	T		.11		.03	.01		T	.12	.29	.04				2.50				
Unity Reservoir||	Youghiogheny	.10	.36	.11	T		.06	.06		.04	.32	.21		.76		T	T	.13	.07		.13		.03	.02		.02	.06	.21	.04				2.73				
Vandergrift	Conemaugh																																				
Warren	Allegheny		.04	.12			.03			.10	.10		.11		.10		.03	.03	.05	.12		.10	.04	.12		.38							1.42				
Washington	Ohio	.10	.04	.09			.06			.12	.21	.03	.61		T	T	.02	T		.08		.01	.01		.03	.33	.11	T					1.85				
Waynesburg|||	Monongahela		.13		T		.10			.33			.61				.04			.10		T	.05			.10	.30						1.76				
Westford|||	Beaver		.34	T						.15			.53		T		.08	.15				T	.11		T								1.36				
West Newton|||	Youghiogheny	.10	.16	.05	T			.11		T	.17	.16		.67			.03	T		.10			.03			.12	.35	.02					2.07				
Lake Drainage.																																					
Erie***	Lake Erie	.16	.14	T	T	T		T		T	.08	T	.50	.06	.06	.05	.09	.13	.05		.02	T	.02	T	.05		.04	T					1.45				
West Bingham	Genesee	T	T	.35			.20		T	.20	.10		.10		T					.10		.05		T	.15	T	.05						1.30				

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Post Office address:—Greensburg

Daily Temperatures for February, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Allentown.....	Maximum ...	39	40	41	24	21	22	28	38	42	35	37	36	38	40	22	21	25	21	27	31	29	36	24	33	43	36	41	37	32.4
	Minimum ...	27	32	16	15	11	12	7	7	25	17	12	12	32	12	11	10	8	8	11	10	17	18	8	33	7	26	29	33	25	16.4
Altoona.....	Maximum ...	35	47	45	27	23	19	29	44	40	32	32	35	50	48	23	15	18	14	26	29	32	31	22	31	40	45	39	38	.....	.....	32.5
	Minimum ...	25	33	27	12	10	3	9	17	31	20	15	7	29	23	-3	4	9	-2	8	9	15	18	12	2	26	33	35	31	.....	.....	16.4
Catawissa.....	Maximum ...	41	42	39	33	25	25	32	45	39	41	42	39	52	38	32	25	24	31	29	38	36	26	26	46	40	42	40	.....	.....	.....	35.5
	Minimum ...	27	31	33	12	12	3	12	4	3	22	14	5	27	32	9	7	9	4	14	6	3	19	9	1	20	28	34	30	.....	.....	15.4
Chambersburg.....	Maximum ...	33	37	43	34	26	22	31	39	48	37	38	39	40	45	30	22	27	24	32	31	38	35	27	33	50	42	40	49	.....	.....	35.4
	Minimum ...	27	32	32	20	18	11	15	5	23	28	24	13	32	30	11	10	15	5	14	18	8	19	19	6	32	27	34	33	.....	.....	20.0
Emporium.....	Maximum ...	36	39	42	21	18	18	21	42	42	29	33	35	47	45	18	15	18	18	24	29	29	29	21	30	41	40	41	36	.....	.....	30.6
	Minimum ...	28	34	21	8	5	-8	-5	16	27	12	10	1	32	10	7	-1	5	-2	10	6	-5	21	5	-15	25	25	25	32	.....	.....	11.8
Erie.....	Maximum ...	44	47	46	12	16	21	31	45	34	22	29	40	44	33	13	11	13	16	21	27	32	26	16	35	40	42	40	35	.....	.....	29.7
	Minimum ...	33	27	12	5	9	9	13	30	17	16	17	16	32	6	6	8	3	3	13	15	11	16	4	-1	25	38	29	26	.....	.....	15.6
Grove City.....	Maximum ...	45	45	38	22	19	24	30	44	48	37	35	40	42	40	15	12	20	21	28	34	31	34	31	30	43	42	42	35	.....	.....	33.1
	Minimum ...	34	31	21	5	9	8	0	27	21	12	6	16	37	14	6	4	6	-2	4	23	2	21	9	-7	28	35	34	29	.....	.....	15.5
Harrisburg.....	Maximum ...	35	41	43	28	22	20	30	38	42	34	38	38	39	42	20	21	25	21	28	26	36	36	25	32	46	37	42	42	.....	.....	33.1
	Minimum ...	28	34	28	18	15	11	14	16	30	24	24	19	30	17	12	12	14	7	17	16	19	24	13	9	32	33	34	35	.....	.....	20.9
Holtwood.....	Maximum ...	39	45	48	32	25	24	29	39	54	34	38	37	43	39	19	21	28	23	28	34	35	36	23	32	48	45	39	45	.....	.....	35.1
	Minimum ...	32	35	32	21	15	10	14	15	23	26	23	16	32	19	12	12	12	7	15	14	12	19	14	8	28	26	36	33	.....	.....	20.0
Indiana.....	Maximum ...	47	47	53	27	24	22	31	44	39	36	37	40	50	49	25	15	20	16	26	34	31	31	24	29	43	43	43	40	.....	.....	34.5
	Minimum ...	36	34	26	12	11	9	7	27	17	17	18	9	32	24	6	5	10	-1	7	13	9	22	13	-3	27	35	36	30	.....	.....	17.4
Mifflintown.....	Maximum ...	31	35	35	34	27	21	34	47	41	39	40	39	45	42	26	22	25	21	32	30	40	37	27	29	46	40	40	42	.....	.....	34.5
	Minimum ...	23	31	31	16	15	3	14	10	26	21	20	8	28	25	11	10	14	5	16	10	11	21	18	5	26	30	33	32	.....	.....	18.3
Philadelphia.....	Maximum ...	39	45	48	35	27	24	31	34	45	40	39	36	45	47	24	25	28	24	31	32	37	41	27	29	51	45	45	44	.....	.....	36.4
	Minimum ...	32	39	35	20	20	15	18	19	28	28	24	27	33	19	15	14	16	11	18	21	23	27	15	10	29	34	36	36	.....	.....	23.6
Pittsburgh.....	Maximum ...	52	53	56	20	20	26	33	45	42	31	34	47	53	43	15	16	19	17	28	32	35	34	21	35	40	47	44	36	.....	.....	34.8
	Minimum ...	42	34	20	12	12	15	12	31	25	17	19	21	43	10	7	8	6	1	13	22	17	21	10	7	34	38	33	31	.....	.....	20.0
Reading.....	Maximum ...	36	40	42	30	23	21	28	40	43	36	38	33	41	42	20	21	25	22	28	27	34	36	25	30	46	40	44	40	.....	.....	33.2
	Minimum ...	25	35	30	17	16	13	13	11	30	25	20	16	31	17	12	11	13	8	16	18	18	25	13	8	30	30	34	33	.....	.....	20.3
Scranton.....	Maximum ...	39	38	40	19	19	21	25	39	40	29	34	35	47	40	19	19	22	19	26	26	31	30	21	23	42	38	43	35	.....	.....	30.7
	Minimum ...	26	32	18	8	11	6	8	9	29	12	12	16	26	11	10	7	7	4	10	9	17	21	7	4	23	22	34	31	.....	.....	15.2
Somerset.....	Maximum ...	47	52	53	23	21	15	31	40	31	28	36	54	48	16	12	15	25	15	20	27	35	30	18	30	35	40	41	37	.....	.....	31.8
	Minimum ...	36	33	22	10	9	8	11	21	20	18	19	11	30	10	0	0	8	-8	5	8	15	16	9	-4	28	27	34	30	.....	.....	15.2
State College.....	Maximum ...	32	43	42	25	20	16	28	42	41	31	32	36	50	47	15	13	16	20	27	33	31	21	28	40	41	39	37	.....	.....	30.8	
	Minimum ...	19	30	25	8	8	-2	10	22	27	19	18	9	26	15	5	4	7	-1	9	14	12	20	11	-2	28	29	31	30	.....	.....	15.4
Towanda.....	Maximum ...	38	38	41	24	17	18	24	40	41	30	32	33	42	37	17	18	21	18	24	28	31	29	21	24	40	39	36	35	.....	.....	29.9
	Minimum ...	28	28	24	6	10	-3	-1	2	29	14	3	4	25	12	8	7	8	-1	10	4	4	8	0	20	16	32	25	.....	.....	11.8	
Uniontown.....	Maximum ...	53	56	58	31	22	22	31	40	40	32	31	40	53	53	24	15	20	17	27	30	32	34	25	34	39	46	46	39	.....	.....	35.4
	Minimum ...	45	38	31	18	16	16	19	27	31	21	20	13	38	24	8	8	14	-1	13	20	21	24	17	1	34	36	39	32	.....	.....	22.2
Warren.....	Maximum ...	38	40	40	12	12	20	30	42	42	25	27	36	42	35	15	12	14	11	21	28	26	25	24	26	43	41	40	39	.....	.....	28.8
	Minimum ...	32	29	12	5	8	0	2	25	21	11	8	9	35	10	5	5	6	0	10	7	16	-10	15	-10	15	25	30	27	.....	.....	13.1
Wellsboro.....	Maximum ...	37	35	37	23	17	15	28	40	35	26	32	31	37	42	14	12	15	15	25	25	32	25	19	23	35	35	35	32	.....	.....	27.8
	Minimum ...	0	25	22	1	3	-7	-4	4	25	3	-4	-1	24	9	3	2	4	4	9	3	-7	18	5	-13	15	13	30	24	.....	.....	7.5
Williamsport.....	Maximum
	Minimum

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXVIII.

MARCH, 1923.

No. 3.

GENERAL SUMMARY.

March began with mild conditions, the temperature being about 20° above the normal on the 3d and 4th. A sharp drop on the 6th was followed by mostly seasonable conditions until the 20th when there was a moderate cold wave followed by a sharp rise to about 20° above the normal on the 22d and 23d. The month closed with two cold waves in close succession, the first being on the 28th and 29th, and the second was on in full force on the night of the 31st. These temperature conditions were favorable for fruit trees as the buds remained dormant. The mild conditions on the 22d and 23d started the growth of grass but did no harm. The greater part of the month's snow fell on the 6th and 7th, and by the middle of the month it had practically disappeared in the southeastern counties, while that remaining in northern districts was melted on the 22d and 23d. The cold waves at the end of the month occurred with no snow covering on the fields and some local damage to the winter grains was reported. Very little work was done in the fields during the month. The high temperature on the 3d and 4th broke the ice in the rivers at some places but it did not move out generally. At Port Jervis, on the upper Delaware, it formed an ice jam below the station and the water backed up to a flood stage. The jam remained for several days but the seepage increased and the stream fell slowly. At Williamsport the breaking of the ice caused a flood stage for a brief period but no serious jam occurred and the stream fell within a few hours.

TEMPERATURE.

The average temperature as determined from the records of 81 stations was 37.0°, or 0.3° below the normal. The highest mean was 42.8° at Marcus Hook and the lowest was 28.2° at Wellsboro. The highest temperature recorded was 80° at Gettysburg, Marcus Hook, and Narberth on the 23d, and the lowest was -8° at Saegerstown on the 8th.

PRECIPITATION.

The average precipitation for the State, as taken from the reports of 128 stations, was 2.49 inches, or 0.95 inch less than the March normal. The snowfall averaged 6.2 inches, as indicated by reports from 77 stations. The greatest monthly precipitation was 5.21 inches at Phoenixville, and the least was 0.70 inch at Lawrenceville. The greatest amount in any 24 hours was 1.70 inches at Elk Lick on the 10th. The greatest monthly snowfall was 19.0 inches at Corry.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Total move- ment, in miles.	Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.			Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	228.3	370.6	62	72	65	11,072	14.9	59	w.	4
Harrisburg.....	214.3	371.0	58	68	62	6,263	8.4	40	nw.	15
Philadelphia.....	233.1	371.0	63	69	59	9,037	12.1	38	nw.	15
Pittsburgh.....	198.5	370.8	54	76	60	11,264	15.1	70	w.	4
Reading.....	204.0	371.0	55	71	66	6,159	8.3	37	nw.	19
Scranton.....	204.0	371.0	55	81	69	6,766	9.1	40	w.	28

* For any five-minute period.

COMPARATIVE DATA FOR MARCH.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	31.2	72	-6	3.55	6.39	1.70	.....	.....	.....
1889.....	39.0	76	4	2.90	5.44	1.44	10	8	13
1890.....	33.2	76	-18	5.15	8.31	2.90	6	10	15
1891.....	33.8	60	-14	5.10	8.39	2.44	7	8	16
1892.....	31.8	66	-4	4.14	6.61	2.04	11	7	13
1893.....	34.8	74	3	2.52	5.09	0.71	9	9	13
1894.....	43.2	84	-2	1.63	2.90	0.24	12	11	8
1895.....	33.8	70	-4	2.31	4.03	0.99	10	10	11
1896.....	30.6	69	-18	4.51	7.98	1.77	11	8	12
1897.....	39.0	75	-5	3.22	5.86	1.01	11	7	13
1898.....	44.0	83	4	4.31	8.40	2.06	10	8	13
1899.....	36.3	75	3	4.87	10.30	1.91	5	9	17
1900.....	31.2	66	-23	3.61	7.31	2.25	10	9	12
1901.....	37.4	80	-11	4.14	7.21	1.52	7	10	14
1902.....	41.3	78	2	3.98	7.50	0.77	10	9	12
1903.....	46.4	83	14	4.52	5.81	2.82	10	7	14
1904.....	36.0	80	-2	4.29	7.02	2.10	9	8	14
1905.....	39.0	86	-18	3.86	6.57	1.40	12	8	11
1906.....	31.7	68	-13	4.46	7.37	2.76	8	7	16
1907.....	41.8	92	-10	4.26	8.20	1.08	11	8	12
1908.....	40.7	83	-4	4.76	10.00	1.58	11	8	12
1909.....	35.6	74	-5	3.07	4.90	1.33	10	9	12
1910.....	44.9	88	5	0.56	1.33	0.00	15	10	6
1911.....	35.0	73	-18	2.57	4.75	1.15	11	8	12
1912.....	33.6	72	-8	5.05	9.71	1.80	10	8	13
1913.....	42.1	81	-7	5.27	9.08	2.75	9	8	14
1914.....	34.2	79	-12	2.61	5.08	0.88	10	3	13
1915.....	32.9	62	-4	1.28	2.80	0.57	15	8	8
1916.....	30.7	84	-31	4.12	8.84	2.20	12	8	11
1917.....	37.3	84	-12	3.68	6.06	1.43	11	8	12
1918.....	41.6	82	0	2.34	4.98	0.87	17	7	7
1919.....	41.1	79	6	3.57	6.99	1.29	15	7	9
1920.....	38.7	80	-11	2.83	9.70	1.06	16	7	8
1921.....	43.0	88	7	3.33	6.15	1.05	12	9	10
1922.....	40.0	81	-5	4.37	6.65	2.30	11	6	14
1923.....	37.0	80	-8	2.49	5.21	0.70	13	8	10

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	9.6	18.0	6	5.1	31	18
Phillipsburg.....	Delaware.....	6.8	14.5	25	2.6	1	22
Mauch Chunk.....	Lehigh.....	5.2	6.1	23	4.5	10	15
Wilkes-Barre.....	Susquehanna.....	10.8	19.0	5	3.5	1	20
Williamsport.....	Susquehanna.....	7.3	21.4	5	2.8	1	20
Harrisburg.....	Susquehanna.....	8.2	14.8	6	5.8	31	17
Freepot.....	Allegheny.....	11.8	19.2	6	6.5	31	22
West Newton.....	Youghiogheny.....	3.7	8.3	1	1.6	31	20
Lock No. 4.....	Monongahela.....	17.2	20.7	25	14.6	31	20
Pittsburgh.....	Ohio.....	12.7	17.5	14	9.2	1	22
Beaver Dam.....	Ohio.....	15.4	22.5	14	9.9	30	30

Climatological Data for March, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 41 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Allentown	Lehigh	254	11	35.2	.....	73	23	11	28†	42	3.68	-0.30	1.01	.....	16	11	11	9	e.	John A. Frick.
Altoona	Blair	1,615	36	36.7	-0.6	68	4	6	29	38	2.56	-0.14	0.58	6.0	12	14	9	8	w.	Lewis E. Biller.
Arendtsville	Adams	700	4	39.0	.....	76	23	11	9†	37	2.30	.....	0.49	6.2	9	14	7	10	s.	R. C. Walton.
Bethlehem	Northampton	295	39	40.0	+0.4	74	23	10	29	41	3.87	+0.23	1.05	7.0	9	.....	.....	.....	w.	E. E. McCollm.
Bustleton	Philadelphia	125	4	38.7	.....	77	23	12	29	31	3.57	.....	1.05	3.7	13	16	5	10	w.	Experiment Station
Carlisle	Cumberland	467	56	39.7	+2.2	72	4†	13	29	40	2.10	-1.44	0.92	8.0	11	18	1	12	s.	Prof. C. E. Miller.
Catawissa	Columbia	520	26	37.5	-0.1	67	3†	8	29	43	1.20	-1.85	0.50	5.3	8	17	6	8	nw	H. H. Yetter.
Center Hall	Center	1,272	27	37.3	+1.5	67	4	6	29	37	0.92	-2.33	0.34	4.0	5	21	5	5	.....	S. W. Smith.
Chambersburg	Franklin	580	23	39.2	+0.8	76	4	9	42	2.35	.....	-0.65	0.61	6.7	13	14	8	9	w.	William B. Spear.
Clearfield	Clearfield	1,120	13	37.8	+0.3	68	4†	-2	31	47	2.37	-1.20	0.46	7.0	13	17	9	5	nw.	E. W. Hess.
Coatesville	Chester	380	35	38.4	-1.0	77	23	9	9†	41	4.01	-0.35	1.03	6.4	10	13	10	8	w.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	13	37.0	.....	73	23	11	29	36	2.84	-0.96	0.92	5.8	11	16	4	11	nw.	Wm. A. Rorer.
Emporium	Cameron	1,050	35	34.0	.....	62	4†	4	29	38	2.35	-1.37	0.52	6.6	9	10	10	11	w.	T. B. Lloyd.
Ephrata	Lancaster	380	22	40.2	+1.2	77	23	12	29	38	3.82	+0.30	1.04	5.0	10	14	5	12	n.	E. K. Hershey.
Everett	Bedford	1,040	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thropp Co.
Freeland	Luzerne	1,970	8	29.2	.....	58	23	-2	29	36	2.08	.....	0.90	11.6	15	10	8	13	sw.	Theo. Reichmann.
George School	Bucks	190	16	39.0†	-0.2	79†	23	10	29	40†	3.86	+0.40	0.98	7.5	12	20	4	7	nw.	Prof. N. W. Swayne.
Gettysburg	Adams	600	49	41.0	+1.8	80	23	12	29	46	2.93	-0.23	0.70	8.5	9	13	11	7	sw.	Col. E. E. Cope.
Gordon	Schuylkill	840	19	35.6	-0.3	64	5	7	29	39	1.74	-2.58	0.72	7.0	10	16	5	10	n.	Capt. J. G. Johnson.
Hamburg	Berks	535	30	36.4	-2.0	73	23	9	29	36	3.89	-0.25	1.20	5.0	11	17	5	9	w.	State Sanatorium.
Hanover	York	600	19	41.9	+0.3	79	23	14	29	35	3.89	+0.74	1.32	5.0	12	18	7	6	w.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	53	38.4	+0.6	71	4	14	29	34	1.83	-1.29	0.50	4.4	10	9	11	11	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	4	32.9	.....	61	23	-1	9	38	1.47	.....	0.60	8.0	8	.....	.....	.....	.....	J. S. Pennell.
Huntingdon	Huntingdon	650	35	38.8	+0.5	73	4	9	9†	41	1.80	-1.76	0.45	4.0	6	10	18	3	w.	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	3	38.0	.....	65	4	8	29	37	1.40	.....	0.50	4.0	7	21	3	7	.....	C. B. McCullough.
Lancaster	Lancaster	255	35	40.2	+2.2	79	23	10	9	45	3.66	+0.21	1.06	9.0	10	21	4	6	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	25	33.2	-0.8	63	4	4	9	36	0.70	-1.81	0.50	10.0	3	8	11	12	.....	C. P. Darling.
Lebanon	Lebanon	469	82	37.1	-1.5	76	23	12	29	41	2.58	-1.26	0.72	6.6	12	15	7	9	w.	S. B. Benzing.
Lewisburg	Union	450	48	37.7	+2.4	68	25	10	29	45	1.91	-1.61	0.45	7.0	10	16	7	8	w.	Prof. W. G. Owens.
Lykens	Dauphin	680	8	37.9	.....	69	5†	8	29	43	1.45	.....	0.72	4.0	9	18	6	7	nw.	Susquehanna Collieries Co.
Marcus Hook	Delaware	50	3	42.8	.....	80	23	13	29	37	3.06	.....	0.92	4.5	9	14	11	6	nw.	Gen. Chemical Co.
Mauch Chunk	Carbon	600	33	35.9	-0.9	65	23	7	29	35	2.50	-2.00	0.94	9.0	10	14	5	12	w.	R. K. Wintermute.
Millintown	Juniata	445	19	39.7	+1.7	70	4	11	29	39	1.44	-1.72	0.63	5.5	9	20	3	8	nw.	Wellington Smith.
Montrose	Susquehanna	1,658	20	30.2	-0.9	57	3	0	29	38	1.12	-1.59	0.45	7.0	6	15	6	10	w.	Silas Jagger.
Muncy Valley	Sullivan	1,045	11	33.4	.....	62	3	4	9†	39	1.88	-0.51	0.54	4.0	9	10	13	8	w.	A. H. Boatman.
Narberth	Montgomery	300	4	39.6	.....	80	23	11	29	35	3.94	.....	1.22	4.7	12	17	5	9	nw.	Charles Decker.
Neshaminy Falls†	Bucks	60	34	37.2	.....	79	23	10	29	43	3.62	.....	1.10	4.0	12	16	6	9	w.	North Springfield Water Co.
Palmerton	Carbon	398	6	37.4	.....	74	23	8	9	35	1.85	.....	0.67	5.3	5	20	2	9	sw.	F. G. Breyer.
Philadelphia (a)	Philadelphia	117	52	41.2	+0.4	77	23	14	29	33	3.58	+0.13	1.08	3.2	9	13	8	10	nw.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	7	40.2	.....	75	23	15	29	37	4.18	.....	1.30	3.0	11	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville	Chester	100	12	40.0	.....	70	3†	12	29	40	5.21	.....	1.20	7.7	11	17	9	5	sw.	North Springfield Water Co.
Quakertown	Bucks	496	38	36.9	+0.6	76	23	9	29	37	3.82	+0.11	1.36	6.7	11	14	9	8	nw.	John E. Benner.
Reading	Berks	325	53	38.8	-1.2	74	23	12	29	32	3.56	+0.02	1.08	4.7	9	15	7	9	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	28	34.2	-0.7	62	3	7	29	30	1.65	-1.47	0.63	5.8	9	5	14	12	s.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	33	36.8	-1.4	66	5	10	29	48	1.39	-2.38	0.45	3.5	11	16	5	10	w.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	27	40.7	.....	72	23	15	29	30	3.44	-0.23	0.94	5.0	10	15	9	7	nw.	W. S. Guiles.
State College	Center	1,217	38	35.8	-0.5	67	4†	5	29	38	1.72	-1.56	0.50	4.2	8	8	14	9	w.	C. A. Kern.
Towanda	Bradford	754	28	33.6	-0.8	62	4	4	9	38	1.36	-1.39	0.33	5.9	11	5	13	13	nw.	Hiram E. Bull, C. E.
Wellsville	Tioga	1,419	57	28.2	-4.5	49	22	-3	9	39	1.46	-1.79	0.57	6.0	9	17	3	11	w.	George W. Hill.
West Chester	Chester	455	85	39.0	+0.7	76	23	11	29	34	3.43	-0.64	1.01	4.2	10	18	6	7	nw.	Arthur M. Hay.
Williamsport	Lycoming	521	36	37.6	+1.0	64	3†	9	29	36	2.25	-1.10	1.00	4.5	12	17	6	8	e	Jacob April.
York	York	400	35	41.7	+1.3	78	23	8	9	43	3.69	+0.39	1.01	.....	10	17	6	8	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam††	Beaver	700	30	40.6	.....	71	12	11	29	50	2.25	-1.30	0.73	0.7	13	9	4	18	sw.	U. S. Engineer.
Bradford	McKean	1,427	8	32.8	.....	62	12	-5	29	42	2.54	.....	0.48	7.1	15	7	13	11	sw.	City Engineer.
Bradys Bend††	Armstrong	930	6	34.1	.....	70	12	0	20	45	2.54	.....	0.50	3.2	12	5	11	15	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	32	32.0	-0.9	69	12	-2	31	43	1.43	-1.63	0.39	5.0	6	17	6	8	.....	John Fawcett.
Claysville	Washington	1,150	19	39.8	-0.8	71	12	9	20†	49	2.94	-0.38	0.72	5.3	15	12	5	14	n.	J. L. Melvin.
Corry	Erie	1,430	11	31.5	.....	61	12	-6	29	43	2.62	.....	0.51	19.0	18	7	10	14	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	26	38.2	-1.9	73	12	5	9	42	2.91	-1.15	0.50	9.5	15	9	14	8	w.	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	5	34.7	.....	67	12	-4	9	46	3.12	.....	0.65	5.0	13	12	9	10	w.	D. H. Jones.
Elk Lick	Somerset	2,680	6	35.8	.....	68	4	4	20†	40	3.88	.....	1.70	14.5	9	12	7	12	w.	J. S. Stevanus.
Franklin	Venango	957	50	33.1	-2.6	65	4†	4	29	44	2.07	-1.38	0.54	4.5	10	12	2	17	nw.	F. E. Dixon.
Greensburg	Westmoreland	1,150	15	39.4	+0.6	73	12	9	2											

Daily Precipitation for March, 1923.

Stations	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh.	.20	.03				.03	1.01	.03	.06		.04	.45	.23	.26			.98		.05	.03	.02			.24			.02					3.68
Altoona	Juniata	.01					.10	.45			.14	.58	T.	.01		.20				.03			.45	.29		.06					.24		2.56
Ansonia|||	W. Br. Susq.		T.			T.		.27			.06	.04	.20			.07				T.			.12	T.		.08				T.			0.84
Arendtsville.	Potomac.						.49	.37			.02	.38	.17			.48				.04			.07	.28									2.30
Bellefonte.	do.			.07			.20	.18			.10		.32										.40										1.27
Bethlehem	Lehigh.						.25	1.05			.05		.60	.08	.18		.70			.40					.56								3.87
Bloersville	Lower Susq.						.76						.75	.15									.38										2.04
Bustleton	Lower Del.	.01					.32	.05			.09		.65	.43	.19		.60	.45		.25			.12	.37			T.	.04					3.57
Carlisle	Lower Susq.						.60	.32			.02		.45	.15	.05	T.	.20	.12					.07	.10			T.			.02			2.10
Catawissa	N. Br. Susq.				T.		.30	.20			.05	T.	.23				.12			.07			.02	.21									1.20
Center Hall.	Susquehanna						.24	.18				.06			T.								.10		.34								0.92
Chambersburg	Potomac.	T.			.03		.61	.40			.02		.44	.11	T.		.31	.09		.04			.08	.16	.04		.02						2.35
Clearfield	W. Br. Susq.	.02			.10		.15	.10	.07			.35	.11	.40			.17			.04			.32	.46			.08	T.					2.37
Coatesville	Lower Del.						.60	.50			.11		.36	.43			.87	.16		.19			.78			.01							4.01
Colebrook	Lower Susq.	T.					* .92	T.			.06		.53	.27			.64			.05			.05	.26			.03				.03		2.84
Cresson|||	Juniata	.01	.05		.07		.80	.07			.45	.35		.07	.01		.22			.10			.44	.27			.06	.03			.15	.26	3.41
Doylstown.	Lower Del.						.27	.50			.15		.53	.35	.07		.75	.56					T.	.90	.06		.01						4.31
Driftwood.	W. Br. Susq.						.02				.51		.70				.08					T.		.30	.05			T.		.03			1.68
Emporium	W. Br. Susq.	T.			.28		.10	.40			.45		.52				.10			T.			.32	.12	T.		T.		.06				2.35
Ephrata.	Lower Susq.						.75	.05			.13		.53	.16			.97			.12			.65	.04			.02						3.82
Everett	Juniata																																
Forest City	N. Br. Susq.						.02	.45				.21	.06				.12	.04		.05			.07	.11	.27						T.		1.40
Freeland|||	Lehigh.		T.			T.		.90	.01		.16	T.	.20	.08	.11	.01	.10	.15		.02			.04	.03	.04				.06	.12		T.	2.03
George School.	Lower Del.	.03					.27	.56			.15		.42	.35	.03		.98			.17			.04	.67	.18		.05	T.					3.86
Gettysburg	Potomac.						.70	.45			.03		.45	.24			.38			.05			.03	.60									2.93
Girardville	Susquehanna						.55	.29			.10		.13	.06			.18			.06			.06	.09							T.		1.52
Gordon	Lower Susq.				T.		.72			.08			.27	.13	.03		.23	.12		.08			.06	.02									1.74
Gouldsboro|||	Lehigh.						.58				.08		.31		.16		.56	.08		.16				.74	.21		.03	.01					4.31
Graterford	Schuylkill	.07					.38	.26	T.		.18	.52	.48	.21			.12			.13													3.89
Hamburg	Schuylkill		.50				* .30			.02	.20	.05	.12	.30			1.20																3.89
Hanover	Lower Susq.	.08					.41	.49			.05		.37	.24	.06		.47	.29		.09			1.32	.08		.02							3.89
Harrisburg***	do.				T.		.42	.08			T.	T.	.42	.23			.40			.03			.06	.17			.01				.01		1.83
Hawley|||	Upper Del.						.60	.15					.35				.12							.05	.20								1.47
Holtwood|||	Lower Susq.						.30	.50			.05		.25	.05			T.	1.13		.13				.12	.21								2.74
Huntingdon	Juniata	T.					.45	.10			.10		.45	T.			T.			T.			.40	.30			T.						1.80
Jersey Shore.	W. Br. Susq.	T.			.04		.27				.06		.30				.50			.03			.20	T.									1.40
Lancaster	Lower Susq.						.40	.50					.47	.15	.16		.60	.46		.14			.03	.75									3.66
Lansford|||	Lehigh.						.34				.09	*	.37	.09	.17	T.	.03	.41		.03		T.	.04		.16								1.73
Lawrenceville.	N. Br. Susq.				T.	T.	.15	.50												T.		T.						.05					0.70
Lebanon	Lower Susq.				T.	.01	*	.69		.10		.39	.09	.23		T.	.72		.06			.03	.05	.21				T.					2.58
Lewisburg	W. Br. Susq.	.05					.43	.45	T.		.03		.44	.03			.13			.09			.05	.21				T.					1.91
Lloyd	W. Br. Susq.	T.		.20			.20	.21			.16		.53							.10			.06	.08				T.					1.54
Lock Haven	W. Br. Susq.	.05		.11			.21	.24			1.40		.32				.12			.12			.13	.38									2.96
Lykens	Susquehanna	T.			T.		.24	.48	T.		.05		.29	.11			.18	.03		.02			.05	T.							T.		1.45
Marcus Hook	Lower Del.						* .45			.09	T.	.42	.68				.92			.26			.23			.01							3.06
Mauch Chunk	Lehigh						.51	.43			.16		.55	.12	.04		.44	.02		.07			.02	.14							T.		2.50
Mifflintown	Juniata			.03			.32	.31			.09		.32	.01			T.						.16	.19	.01								1.44
Montrose	N. Br. Susq.						.20	.25				.10				.20							.10	.27									1.12
Mount Union	Juniata	T.		.03			.72	T.			.38		T.	.03			.08			T.			.25	.30			.03						1.82
Muncy Valley	W. Br. Susq.			.02			T.	.48			.11		.36	T.			.54			.01			.03	.29	.04								1.88
Narberth	Lower Del.	.01			T.		.36	.24			.23		.51	.62			.87	.35		.27			T.	.35	.08		.05						3.94
Neshaminy|||	Lower Del.	.04					.04				.01	.09	.09	.22	.55		1.10			.14	.04			.02	.52			T.					3.62
Palmerton	Lehigh						.33						.47	.06			.67		T.	T.		T.		.32									1.85
Philadelphia (a.)	Lower Del.	T.					.01	.39			.09	T.	.30	.61			1.08	T.		.27			T.	.22			.01						3.58
Philadelphia (d.)|||	do.		T.					.90			.01	.07	.21	.15	.65		1.30																

Daily Precipitation for March, 1923. - Continued from page 11.

Stations.	Drainage Basin.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Franklin	Allegheny	T.			.13		T.	.54	.06		.25	.04	.23		T.		.30			T.	.04		.12	.36			T.					T.	2.07	
Freeport	Allegheny	T.	.02		.08		.10	.70	.05	.04	.22	.28	.31		.04		.09			.04		.42	.13	.30				.32		T.			3.14	
Greensburg	Youghiogheny	.01					.37	.36	T.		.35		.13	T.	.08		.03			.06		T.	.53	.43							.34	.11	2.80	
Greenville	Beaver	.22					*	.50			.05				.40							.46	.02	T.				T.			.08	T.	1.73	
Grove City	Beaver	.02			.09		.24	.36	.03		.23		.17		.01		.15			.02		.49					.02					T.	.02	1.85
Herr's Isl. Dam	Ohio	T.	T.		.05	T.	.10	.65	.02	T.	.14	.09	.27		.03	T.	.07	T.		.01	T.		.32	.15	.35		.04				T.	T.	.04	2.33
Indiana	Conemaugh	.06			.12		.15	.15			.19						.13			.04		.40	.50				.05						T.	1.79
Ingram	Ohio	T.		.03	T.		.57	.30	T.		.22		.22	T.	.06		.05			.02		.47	.32				.15	.01			T.	T.	2.42	
Irwin	Youghiogheny	.01			T.		.40	.38	.10				.54		.01					.04		.56	.41	T.							.16	T.	2.61	
Johnstown	Conemaugh	.04			.04		.73	.46	.01		.35		.39	T.	.14		.18			.10		.69	.33	T.			.04	.08	.05		.40	.01	4.04	
Ketner	Allegheny	.02			.14		.12	.37	.03		.36		.29		.02		.09					.31	.14	.02			.03		.03					1.97
Linesville	Beaver	.03			.22			.52	.05		.28		.27		.05		.37				.03	.40	.12						.02					2.36
Lock No. 4	Monongahela	T.	.02		T.		.30	.52	.02		.12	.16	.19		.02	T.	.11			T.	.02		.22	.25	.38		.05	.10	.05		.20	.06	2.79	
Lycippus	Conemaugh	T.					.32	.56	T.		.42		.22	T.	.07		.20			.03		.48	1.20				.06				.28	.04	3.88	
New Castle	Beaver		1.00				.50	.80	.30	.16		.20				.22						.43	.18					T.			.03		3.82	
Newell	Monongahela	T.					.62	.12	T.	.01	.33	.05	.13		T.		.12				.02		.40	.49			.08	.03			.07	T.	2.47	
North Shenango	Beaver	.10	.02		.17		*	.45	.15		.35				T.	T.	.45	.23				.44	.63								.10		3.09	
Parkers Landing	Allegheny	T.	T.		.18		T.	.30	.10	T.	.30	.05	.36		T.	T.	.14			T.	T.	.24	.43	.08			.04				T.	.02	2.24	
Pennline	Beaver	.03	.02		.24		.43	.06			.22		.38		.01	T.	.45	T.			.02	.33	.09				T.				.02	.01	2.36	
Pittsburgh	Ohio	T.		T.	.05	T.	.68	.04	T.		.16	.06	.17	.04	.01	.01	.04				T.		.39	.35			.14	.01			T.	T.	.05	2.15
Ridgway	Allegheny						.54				.42						.51			.02	.04		.30	.23									2.00	
Saltsburg	Conemaugh		.01		.03		.05	.65	.02	T.	.07	.32	.23		.05	T.	.04	.02		.02	.04		.14	.60	.42		.03	T.	T.		T.	T.	2.76	
Saegertown	Allegheny			.22			.16	.36			.30		.27	T.			.41			.06	.01		.33	.18							.10	T.	2.54	
Sharon	Beaver	T.	T.				*	.72	.04		.14		.16			T.	.25			T.		.45	.03					T.	T.			.03	1.82	
Somerset	Youghiogheny	T.	T.				.60	.75			.27	.05	.10			.34			.11	.06		.52	.33	.02							.08		3.23	
Springdale	Allegheny	T.			.05		.13	.55	.01	T.	.16	.18	.23		.05	T.	.06			.03	.01		.32	.23	.39		.07				.01		.02	2.50
Stoyestown	Conemaugh	.04	T.		T.		.32	.45	T.		.41			*	.31		.24	.01		.04		.79	.37	T.			.14			T.	T.	.09	.03	3.24
Summit	Beaver				.23		.28	.18		.21					T.		.70				.10		.35				.15	.34	.23			.10		2.87
Tionesta	Allegheny	.07			.06		.35	.05		.45							*					.75	.08								T.		.10	1.81
Turnerville	Beaver		.10		.15			.45			.20						.35			.50			.30								.10		.05	2.20
Uniontown	Monongahela	.03					.48	.54	T.		.57		.23	.01	.03		.16			.12		.44	.55								.04	T.	3.26	
Unity Reservoir	Youghiogheny				.04		.36	.46			.36			.24	.07		.09			.04		.51	.45	.02			.04				.39	.06	3.13	
Vandergrift	Conemaugh						.60	.35			.39		.24		.40							.52	.33								.05		2.88	
Warren	Allegheny	.03			.06		.30	.20		.16		.10		.02		.16			.06			.20		.02			.04				.14		.05	1.54
Washington	Ohio	T.		.01	T.		.75	.02	T.		.37	.06	.14	.20		.02		.11		.03		.67	.41				.10	.06			.22	T.	3.01	
Waynesburg	Monongahela										.10		.18	T.			.20	.25			T.		.41	.13								T.		1.11
Westford	Beaver	.03			.56		.40	.34			.10		.18	T.			.20	.25			T.		.41	.13								T.		2.18
West Newton	Youghiogheny				T.		.29	.46	.03		.09	.14	.20			T.	.06				T.	.02	.19	.24	.29		.02	T.				.15		2.71
Lake Drainage.																																		
Erie	Lake Erie	.01			.02	T.	.32	.18	T.	.04	.46		.21	T.	.09	.04	.11			.02	T.		.07	.26		T.	.03	T.			T.	T.	T.	1.89
West Bingham	Genesee	T.			.05	.10	.20	.20			.25		.34				.15			.05	.10		.03								T.	T.	.05	1.52

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. || Post Office address:—Greensburg

Daily Temperatures for March, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
Allentown.....	Maximum...	40	50	65	64	42	25	36	36	37	42	49	37	41	39	44	59	45	53	44	35	56	65	73	50	55	44	56	38	36	41	31	46.1	
	Minimum...	25	31	33	35	23	19	21	20	20	29	29	40	33	24	25	30	27	28	14	14	15	32	31	30	31	28	24	11	13	14	11	24.2	
Altoona.....	Maximum...	36	58	63	68	45	33	31	29	37	42	47	43	59	38	41	60	46	61	53	37	62	59	61	44	60	55	51	47	37	48	37	48.0	
	Minimum...	29	30	42	41	30	22	20	16	11	30	23	32	37	25	18	33	23	25	15	7	28	40	43	28	23	29	26	15	6	30	10	25.4	
Catawissa.....	Maximum...	37	56	67	67	45	33	37	40	42	46	54	46	43	40	48	59	48	58	43	54	62	60	65	48	57	52	57	36	39	48	32	49.0	
	Minimum...	17	29	30	37	33	20	20	21	14	30	23	34	33	28	20	35	26	25	39	11	29	39	46	33	22	30	19	20	8	21	15	26.0	
Chambersburg.....	Maximum...	43	64	75	76	68	38	38	36	39	47	50	43	43	41	46	57	49	58	52	37	61	55	75	54	60	56	61	56	38	51	52	52.2	
	Minimum...	29	28	33	42	35	22	20	23	9	26	23	33	33	28	22	22	26	23	23	14	24	41	46	34	25	31	22	26	12	25	16	26.3	
Emporium.....	Maximum...	38	52	58	62	35	26	30	31	37	42	46	62	53	34	43	61	48	58	48	35	59	55	60	42	55	45	48	34	36	45	22	45.2	
	Minimum...	25	34	32	35	26	23	23	14	5	31	22	36	33	24	20	31	20	20	12	7	27	34	38	31	20	20	18	10	4	22	10	22.8	
Erie.....	Maximum...	36	56	56	62	30	31	25	28	41	43	47	62	34	26	50	60	39	57	52	39	58	59	60	37	57	25	42	32	43	36	17	42.9	
	Minimum...	32	36	42	30	22	23	18	15	19	32	28	34	23	15	22	26	23	34	10	10	39	45	32	29	21	18	19	10	6	17	9	23.8	
Grove City.....	Maximum...	38	61	65	68	39	31	33	33	35	44	47	67	61	55	51	58	56	57	55	39	59	56	55	59	52	57	48	43	39	44	29	49.5	
	Minimum...	31	32	40	39	24	22	20	3	8	31	23	45	32	19	21	22	20	22	12	8	32	41	40	21	30	24	19	14	7	29	8	23.7	
Harrisburg.....	Maximum...	40	56	70	71	43	32	38	34	37	45	49	41	43	40	44	60	46	55	44	35	58	57	70	50	57	45	58	44	36	45	29	47.5	
	Minimum...	31	34	36	41	32	20	19	25	22	31	32	35	37	32	28	36	30	30	17	15	31	44	42	38	34	33	29	18	14	29	16	29.4	
Holtwood.....	Maximum...	41	57	70	68	43	30	37	32	37	50	52	48	43	41	43	56	43	50	50	36	54	72	77	50	54	48	57	46	36	57	32	48.7	
	Minimum...	27	32	32	43	25	25	27	26	18	32	28	37	37	32	25	47	27	28	17	16	29	42	46	36	28	32	25	18	15	32	18	28.8	
Indiana.....	Maximum...	36	58	67	69	43	40	33	34	43	44	53	70	66	40	50	59	48	64	61	38	65	63	58	46	60	60	52	51	40	48	42	51.6	
	Minimum...	27	29	44	42	30	23	22	17	12	34	22	36	36	22	20	33	19	26	15	9	31	40	40	28	20	31	22	19	7	33	11	25.9	
Mifflintown.....	Maximum...	39	57	69	70	55	39	38	38	45	42	55	44	45	42	46	58	53	60	52	42	64	55	63	50	61	55	59	52	41	51	49	51.3	
	Minimum...	26	32	30	41	34	22	21	23	14	27	30	35	36	31	25	38	27	25	23	13	28	42	42	37	31	36	26	22	11	32	12	28.1	
Philadelphia.....	Maximum...	44	55	73	70	48	32	41	37	41	47	52	46	48	45	47	60	48	54	51	35	58	69	77	54	55	47	55	48	35	60	41	50.7	
	Minimum...	30	36	40	48	32	20	28	27	28	31	35	36	36	33	27	35	35	32	21	18	31	48	51	40	36	35	34	18	14	31	21	31.8	
Pittsburgh.....	Maximum...	37	61	65	69	37	39	31	32	44	48	51	71	44	34	32	55	61	46	61	53	40	64	61	61	45	60	52	61	32	48	50	19	49.1
	Minimum...	32	35	52	35	28	30	24	19	22	37	32	42	30	24	28	30	24	32	13	12	39	44	35	31	31	28	23	14	13	18	11	28.0	
Reading.....	Maximum...	39	56	69	71	45	31	36	35	38	44	50	42	42	40	44	60	47	54	45	32	57	64	70	50	53	45	58	48	42	34	35	47.7	
	Minimum...	28	35	37	41	31	22	24	25	24	31	32	34	36	31	25	34	33	31	19	15	32	46	49	37	32	35	32	17	12	31	19	30.0	
Scranton.....	Maximum...	37	48	62	61	37	23	29	32	34	39	45	46	44	34	42	57	40	52	43	32	58	58	61	46	52	44	52	31	34	47	24	43.4	
	Minimum...	20	33	38	37	21	17	18	21	17	28	31	35	34	25	21	33	27	30	13	11	29	42	41	30	24	26	22	9	7	22	12	25.0	
Somerset.....	Maximum...	32	61	66	55	40	29	28	27	40	38	46	70	66	35	45	56	44	63	60	37	65	55	60	45	60	52	50	45	44	50	45	48.5	
	Minimum...	28	28	45	40	27	22	20	14	24	22	21	31	35	22	15	30	26	25	10	5	32	42	35	28	34	31	25	13	5	31	12	25.1	
State College.....	Maximum...	36	54	62	67	41	31	31	29	36	40	47	47	48	38	43	57	45	67	48	36	61	58	60	43	56	53	50	40	36	47	33	46.5	
	Minimum...	26	30	40	38	29	20	19	17	13	28	27	32	34	24	21	32	21	29	14	7	30	40	42	29	23	24	26	12	5	32	11	25.0	
Towanda.....	Maximum...	37	52	59	62	43	22	28	32	33	44	44	47	42	32	44	57	40	54	34	33	58	54	60	44	51	47	52	45	33	44	22	44.2	
	Minimum...	13	32	33	36	22	18	18	15	4	25	25	33	32	24	22	32	25	29	16	9	31	31	40	43	32	21	19	14	10	6	20	23.0	
Uniontown.....	Maximum...	37	63	69	72	45	39	39	33	42	41	55	65	44	41	54	54	45	59	59	39	63	63	61	45	56	56	50	50	48	48	40	51.5	
	Minimum...	30	34	50	45	31	28	26	23	13	39	27	42	41	30	27	35	23	26	13	11	38	45	41	22	26	36	29	23	12	33	14	29.6	
Warren.....	Maximum...	36	41	58	40	35	30	28	27	35	46	38	55	45	27	41	41	42	50	38	34	50	45	40	32	50	50	35	26	35	35	15	38.7	
	Minimum...	28	30	38	30	25	20	18	12	9	31	24	35	25	16	20	27	20	20	24	6	31	40	32	28	20	25	15	8	0	15	8	21.9	
Wellsboro.....	Maximum...	37	42	41	40	35	25	22	28	36	43	42	38	40	32	40	38	42	42	43	34	40	49	41	38	38	39	40	39	32	30	29	37.3	
	Minimum...	10	31	31	33	23	18	18	4	-3	25	19	32	30	22	19	30	20	25	11	5	25	37	38	26	17	16	12	6	2	8	5	19.2	
Williamsport.....	Maximum...	32	47	64	63	64	35	35	34	39	46	47	44	43	41	41	58	45	54	53	37	59	55	60	48	52	56	55	51	36	56	51	48.4	
	Minimum...	19	30	41	35	34	22	22	21	15	30	24	34	37	37	30	22	36	26	29	22	11	30	39	44	35	25	20	20	9	33	15	26.9	

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXVIII.

MAY, 1923.

No. 5.

GENERAL SUMMARY.

The first eight days were practically rainless with an abundance of sunshine and a wide range in temperature between day and night, amounting in some instances to as much as 50° or more. This was a period of very favorable weather for field work, which progressed almost without hindrance. Although there had been good rains near the close of April, the ground generally became too dry for the rapid and even germination of seeds. Early sown fields of oats came up spotted, while grasses, alfalfa and clover made slow growth.

Heavy rains occurred over nearly all parts of the State on the 8th or 9th and again on the 12th. The first of these storms was attended by a sharp change to colder weather with widespread snowfall on the 9th. There were eight stations recording from three to five inches of snow. On the mornings of the 10th and 11th there were freezing temperatures over probably three-fourths of the State with clear weather and frost in some places. The resulting damage was small considering the vast extent of the freezing temperatures and the fact that they were lower in most places than the minimum temperatures of May last year.

Between the 15th and 21st there was a fair amount of rainfall with warmer weather, and marked improvement resulted in the appearance of wheat, meadows and pastures. However, it was not a favorable period for corn, for which the weather had been too wet or too cool or both. After the 21st there was generally clear weather and very little rain.

TEMPERATURE.

The average temperature for the State, as determined from the records of 78 stations, was 58.3°, or 1.7° below the May normal. There was a general deficiency in temperature throughout the western half of the State, amounting in some localities to as much as four degrees. In the eastern part of the State the conditions were more nearly normal and some stations had a slight excess in temperature. The highest mean temperature was 64.0° at Marcus Hook, and the lowest was 49.0° at West Bingham. The extremes for the State were 93° at Clearfield on the 26th and 20° at West Bingham on the 3d, 7th, and 14th.

PRECIPITATION.

The average precipitation for the State, as determined from the records of 131 stations, was 3.50 inches, or 0.37 inch less than the May normal. Most stations in the northern half of the State recorded totals ranging from four inches upward, while all but one of those having less than two inches were in the extreme southeastern part of the State. The greatest total was 7.43 inches at Clearfield and the least was 1.23 inches at Philadelphia. The greatest 24-hour precipitation was 2.86 inches at Center Hall on the 12th.

The month was unusually free from damaging storms and destructive winds, though there were some instances of rainfall at rates termed excessive.

Hail occurred on the 8th at Harrisburg, Lebanon, Lewisburg, Montrose and Sunbury, and on the 9th at Colebrook, Gordon and Scranton. No injury was reported by the observers at any of these places except that leaves were cut at Lewisburg.

G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.				
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	346.0	451.8	77	64	60	10,434	14.0	52	s.	15
Harrisburg.....	340.9	446.2	76	59	41	5,090	6.8	44	sw.	9
Philadelphia.....	345.7	446.2	77	64	56	7,546	10.1	40	sw.	8
Pittsburgh.....	316.8	449.0	71	62	48	8,483	11.4	50	sw.	16
Reading.....	359.0	446.0	80	69	57	3,652	4.9	24	nw.	26
Scranton.....				73	60	5,598	7.5	35	sw.	16

* For any five-minute period.

COMPARATIVE DATA FOR MAY.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	57.3	91	24	4.24	8.41	2.26	.....	.....	.....
1889.....	60.4	96	25	5.91	12.41	2.51	.....	11	13
1890.....	58.5	89	23	6.71	12.41	2.96	.....	11	13
1891.....	57.3	93	20	2.12	4.41	0.31	10	10	11
1892.....	58.5	91	28	5.70	9.30	3.77	7	10	14
1893.....	57.9	93	26	5.54	9.20	2.92	11	8	12
1894.....	60.8	92	27	8.88	15.02	2.72	9	8	14
1895.....	60.6	110	22	2.68	6.46	0.86	13	10	8
1896.....	65.4	98	31	2.85	6.30	1.19	10	12	9
1897.....	57.7	88	25	5.24	10.05	1.71	11	10	10
1898.....	60.0	94	22	5.11	10.15	2.79	8	9	14
1899.....	61.1	100	24	3.82	6.40	1.15	10	11	10
1900.....	60.4	96	20	2.79	7.63	0.72	13	9	9
1901.....	58.9	91	28	5.56	7.96	2.24	8	9	14
1902.....	59.8	95	25	1.96	4.45	0.29	13	11	7
1903.....	61.8	94	18	1.67	4.65	0.22	16	9	6
1904.....	61.6	94	21	3.78	7.50	2.07	12	10	9
1905.....	60.8	93	22	5.59	5.17	0.56	11	9	11
1906.....	60.0	99	23	3.23	5.59	0.93	12	10	9
1907.....	54.8	91	19	3.08	6.38	1.44	11	9	11
1908.....	61.2	96	22	6.28	10.95	3.19	10	10	11
1909.....	59.2	92	23	2.90	5.52	1.51	12	10	9
1910.....	56.8	88	24	3.38	6.08	1.73	11	10	10
1911.....	65.2	99	20	1.97	6.81	0.42	17	10	4
1912.....	61.2	91	28	3.15	5.99	0.99	14	8	9
1913.....	58.5	93	21	3.86	6.45	0.48	13	8	10
1914.....	61.5	96	19	3.34	6.52	0.90	16	9	6
1915.....	56.2	84	21	4.16	7.45	2.29	10	8	13
1916.....	61.0	93	26	3.19	6.09	1.49	12	11	8
1917.....	53.3	90	20	3.39	8.09	1.65	9	10	12
1918.....	65.1	95	21	5.04	8.37	1.81	13	12	6
1919.....	59.5	98	27	5.80	13.59	2.86	13	7	11
1920.....	56.6	92	18	2.02	3.65	0.67	17	8	6
1921.....	59.8	93	22	3.93	8.17	0.97	14	8	9
1922.....	62.5	96	20	3.21	7.14	1.69	15	8	8
1923.....	58.3	93	20	3.50	7.43	1.23	19	6	6

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	4.4	6.8	10	2.8	31	18
Phillipsburg.....	Delaware.....	4.2	6.0	1	2.3	31	22
Mauch Chunk.....	Lehigh.....	4.3	5.5	9	3.3	2	12
Wilkes-Barre.....	Susquehanna.....	6.7	9.8	18	4.1	31	20
Williamsport.....	Susquehanna.....	5.5	14.0	13	2.5	8	20
Harrisburg.....	Susquehanna.....	5.3	8.7	15	4.5	8	17
Freeport.....	Allegheny.....	7.7	21.2	13	4.1	8	22
West Newton.....	Youghiogheny.....	1.8	4.4	13	0.7	31	20
Lock No. 4.....	Monongahela.....	14.7	18.6	14	13.2	31	31
Pittsburgh.....	Ohio.....	10.3	19.3	13	7.6	31	22
Beaver Dam.....	Ohio.....	11.5	26.8	13	7.4	31	30

Climatological Data for May, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	11	59.7	.....	86	29	34	10	39	3.01	-0.61	1.15	0	8	13	12	6	e.	John A. Frick.
Altoona.....	Blair.....	1,615	36	57.0	-2.4	87	29	30	10	37	3.87	-0.15	0.95	3.0	11	18	9	4	e.	Lewis E. Biller.
Bethlehem.....	Northampton.....	295	39	61.8	-1.2	86	29	35	11	40	2.74	-0.98	0.90	0	5	8	19	4	sw.	E. E. McCollm.
Biglerville.....	Adams.....	.....	1	59.4	.....	88	29	30	11	40	2.62	.....	1.07	T	7	22	3	6	n.	R. C. Walton.
Bustleton.....	Philadelphia.....	125	4	62.0	.....	88	29	32	11	40	1.78	.....	0.63	0	6	17	8	6	sw.	Experiment Station
Carlisle.....	Cumberland.....	467	56	61.6	+0.2	88	29	33	11	41	2.36	-1.47	1.38	1.0	8	21	3	7	se.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	26	58.1	-3.3	87	26†	30	11	51	3.47	-0.11	1.49	T	9	22	3	6	nw.	H. H. Yetter.
Center Hall.....	Center.....	1,272	27	56.4	-3.4	87	28	31	7	45	7.43	+2.65	2.86	.....	9	23	2	6	nw.	S. W. Smith.
Chambersburg.....	Franklin.....	580	23	59.2	-2.0	87	29	30	11	41	3.62	-0.03	2.12	T	8	16	10	5	ne.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	13	58.0	-1.8	93	26	26	11	54	4.21	-0.57	1.05	1.0	9	21	4	6	sw.	E. W. Hess.
Coatesville.....	Chester.....	380	35	59.8	-1.9	85	29	29	11	37	3.35	-0.68	1.77	0	8	17	11	3	se.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	13	59.4	.....	86	29	32	11	39	2.20	-1.03	0.76	0.1	8	24	2	5	s.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	35	54.3	-4.4	83	26	27	3†	47	5.23	+0.78	1.48	0.8	9	21	2	8	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	22	61.4	+0.5	87	29	33	11	38	3.09	-0.44	1.10	T	7	18	8	5	w.	E. K. Hershey.
Everett.....	Bedford.....	1,040	25	.....	.....	80	26	24	10	36	4.81	.....	1.40	0.5	10	15	8	8	nw.	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,970	8	53.0	.....	87	29	30†	11	38†	1.82	-1.79	0.57	0	8	22	9	0	se.	Theo. Reichmann.
George School.....	Bucks.....	190	16	59.8†	-1.2	87	29	30†	11	38†	1.82	-1.79	0.57	0	8	22	9	0	se.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	600	49	60.6	-0.7	90	29	32	11	42	2.71	-1.26	0.95	0	7	17	11	3	nw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	19	56.6	-1.9	83	26	27	11	45	3.75	-0.01	1.25	T	9	20	3	8	n.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	535	30	61.0	-0.7	90	20	30	11	49	3.08	-1.42	1.82	T	5	23	5	3	w.	State Sanatorium.
Hanover.....	York.....	600	19	61.0	-2.9	87	29	35	9	35	2.48	-0.82	0.92	T	8	23	5	3	s.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	53	61.7	0.0	84	29	34	9	32	3.14	-0.53	1.36	T	9	13	10	8	ne.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	4	56.2	.....	86	26	27	11	48	3.23	.....	1.44	.....	8	.....	.....	.....	.....	J. S. Pennell.
Huntingdon.....	Huntingdon.....	650	35	57.6	-3.1	89	29	27	11	48	3.34	-0.98	1.31	T	8	18	5	8	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	3	59.4	.....	95	29	31	11	48	4.70	.....	1.58	T	9	22	2	7	.....	C. B. McCullough.
Lancaster.....	Lancaster.....	255	35	60.2	-0.8	89	29	31	11	43	3.12	-0.16	1.25	0	5	24	3	4	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	25	54.0	-3.5	84	28	28*	3†	52*	2.55	-1.31	0.75	T	6	21	1	9	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	82	59.9	-1.1	88	29	33	11	40	2.48	-1.55	0.77	T	7	20	7	4	w.	S. B. Benzing.
Lewisburg.....	Union.....	450	48	59.0	+0.5	89	26	31	11	44	4.26	+0.33	1.05	T	10	20	4	7	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	616	34	58.9 ^d	-3.0	88 ^d	24†	30†	11	49 ^d	4.51	+0.67	1.60	T	8	.....	.....	.....	.....	R. Scott Kirt, C. E.
Lykens.....	Dauphin.....	680	8	58.2	.....	92	5	28	11	49	4.03	.....	1.33	T	7	23	3	5	nw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	3	64.0	.....	85	29	40	9†	36	1.54	.....	0.78	0	7	.....	.....	.....	.....	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	33	58.0	-2.1	86	26	29	11	43	4.15	+0.14	0.99	T	8	20	5	6	w.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	19	60.6	-0.1	91	29	32	11	44	3.61	-0.13	0.90	T	9	20	1	10	nw.	Wellington Smith.
Montrose.....	Susquehanna.....	1,658	20	55.7	+0.7	82	26	28	10	31	4.65	+0.95	1.85	1.0	7	23	3	5	w.	Silas Jagger.
Muncy Valley.....	Sullivan.....	1,045	11	55.1	.....	85	26	28	11	45	4.76	+0.39	1.65	T	7	18	8	5	w.	A. H. Boatman.
Narberth.....	Moutgomery.....	300	4	60.6	.....	87	29	35	10†	35	2.03	.....	0.63	T	8	17	8	6	ne.	Charles Decker.
Neshaminy Falls††	Bucks.....	60	34	59.2	.....	87	29	30	11	40	1.53	.....	0.53	0	8	19	3	9	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	6	58.4	.....	87	29	30	11	42	4.54	.....	1.46	T	7	21	5	5	ne.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	52	62.6	-0.3	87	29	38	10	30	1.23	-1.97	0.50	0	7	13	10	8	s.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	7	62.6	.....	89	29	40	10†	32	1.28	.....	0.50	0	5	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	12	61.4	.....	86	26†	33	11	42	2.44	.....	0.93	0	6	.....	.....	.....	.....	North Springfield Water Co.
Quakertown.....	Bucks.....	496	38	58.6	-1.0	82	26	24	11	44	2.34	-1.68	1.01	0	6	20	8	3	nw.	John E. Benner.
Reading.....	Berks.....	325	53	61.6	-0.9	86	29	38	10	32	2.43	-0.94	1.16	T	9	16	12	3	sw.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	28	58.1	-0.7	86	26	32	11	39	3.26	-0.18	1.70	1.0	8	17	6	8	nw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	33	.....	.....	85	29†	38	10†	33	1.72	.....	0.82	0	5	19	11	1	nw.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	27	62.3	.....	85	29†	38	10†	33	1.72	.....	0.82	0	5	19	11	1	nw.	W. S. Guiles.
State College.....	Center.....	1,217	38	54.8	-4.3	79	5	30	9†	36	4.44	+0.47	1.14	0.5	8	18	9	4	ne.	C. A. Kern.
Towanda.....	Bradford.....	754	28	54.8	-3.2	84	26	30	11†	46	2.51	-0.70	0.94	T	5	17	5	9	n.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	57	.....	.....	84	26	.....	.....	.....	2.97	-1.08	1.00	1.0	8	23	1	7	sw.	George W. Hill.
West Chester.....	Chester.....	455	85	60.0	-0.7	84	29	34	10	34	2.86	-1.59	1.39	0	8	21	7	3	sw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	36	58.8	-1.9	85	26	32	11	41	3.79	+0.59	0.88	T	9	21	3	7	nw.	Jacob April.
York.....	York.....	400	35	60.2	-1.5	86	29	32	11	42	2.21	-1.17	0.77	T	5	19	10	2	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam††.....	Beaver.....	700	30	60.8	.....	90	25	33	9†	49	4.43	+1.31	1.28	1.0	8	18	3	10	ne.	U. S. Engineer.
Bradford.....	McKean.....	1,427	8	52.6	.....	87	26	23	14	52	3.62	.....	1.07	3.0	11	20	2	9	sw.	City Engineer.
Bradys Bend††.....	Armstrong.....	930	5	54.8	.....	88	29	22	14	54	4.98	.....	2.64	3.0	10	17	3	11	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	32	58.0 ^a	-3.5	86*	26†	25*	11†	52*	4.77	+1.10	1.40	T	7	22	1	8	.....	John Fawcett.
Claysville.....	Washington.....	1,150	19	59.2	-2.1	88	28	30	9†	46	3.42	-0.02	0.75	1.5	9	19	5	7	se.	J. L. Melvin.
Corry.....	Erie.....	1,430	11	58.9	.....	83	26†	25	14	47	4.69	.....	1.07	3.5	10	21	3	7	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	26	59.8	-1.7	89	28†	29	15	59	3.89	+0.44	1.33	T	8	19	4	8	w.	Wm. A. Huff, Jr.
Ebensburg.....	Cambria.....	2,000	5	52.4	.....	82	29	23	11†	46	4.84	.....	1.74	T	9	21	4	6	ne.	D. H. Jones.
Elk Lick.....	Somerset.....	2,680	6	55.8	.....	81	29	26	10	40	2.50	.....	0.90	3.0	7	21	3	7	w.	J. S. Stevanus.
Franklin.....	Venango.....	957	50	58.8	-2.2	88	28													

Daily Precipitation for May, 1923.

Stations	Drainage Basin.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic Drainage.																																			
Allentown|||	Lehigh.....	.03					T.			1.15	.04		.04	.40			T.	.51	T.		.03	.77	.04											3.01	
Altoona.....	Juniata.....						.04			.49	.39	.03	.31	.95	.28		.01	.55	T.		.44	.38												3.87	
Ansonia|||	W. Br. Susq.	.08								.65	.03	T.	.63	.58			T.	.05	.60			1.28												3.90	
Bethlehem.....	Lehigh.....									.90			.10					.58	.40			.76												2.74	
Biglerville.....	Susquehanna.....									.37	.43		.03	.14	.02		T.	.56			T.	1.07												2.62	
Bloersville.....	Lower Susq.									.77			.35					.14				1.68												2.94	
Bustleton.....	Lower Del.									.44			.05	.48				.05	.13			.63												1.78	
Carlisle.....	Lower Susq.									.18	.44		.66	.12	.09	T.	T.	.09			.10	1.28												2.36	
Catawissa.....	N. Br. Susq.									1.25	.24	.10	.17	.86			.02	.16				.38	.29											3.47	
Center Hall.....	Susquehanna.....																																		
Chambersburg.....	Potomac.....		T.							.45	.32		.05	.06	.36		T.	.26			.19	1.93												3.62	
Clearfield.....	W. Br. Susq.									.38	.32	.10	.80	1.05			.35	.12	T.		.57	.52												4.21	
Coatesville.....	Lower Del.									.43	1.34		.01	.14	.32			.03	.14			.94												3.25	
Colebrook.....	Lower Susq.									.30	.26		.05	.24	.09		.01	.49	T.		T.	.76												2.20	
Cresson|||	Juniata.....									*	*	.70		1.08	.58		.01	.13	.73			.82												4.05	
Doylestown.....	Lower Del.	.03								.73			T.	.05	.69			.04	.27		.03	.47												2.31	
Driftwood.....	W. Br. Susq.									.55	.18			.82	1.00		.30	.70			.02	1.00												4.57	
Emporium.....	W. Br. Susq.									.31	.30	.04	.58	1.48			.16	.82				.61	.93											5.23	
Ephrata.....	Lower Susq.									1.10	.02		.07	.37			.02	.75				.76												3.09	
Everett.....	Juniata.....																																		
Forest City.....	N. Br. Susq.									1.89	.12		.68	.38			.05	.35				.45												3.92	
Freeland|||	Lehigh.....	.20								1.40	.10	.06	.64	.62			.10	1.04				.53	.10											4.81	
George School.....	Lower Del.	.05								.36	.01		.01	.57				.12	.17	T.		.53												1.82	
Gettysburg.....	Potomac.....									.42	.31		.05	.15	.02			.95				.81												2.71	
Girardville.....	Susquehanna.....									.68	.22		.12	.67			.05	.40			.27	.58												2.99	
Gordon.....	Lower Susq.						T.			.09	1.25	.06	.42	.50			.01	.13	.22		1.07													3.75	
Gouldsboro|||	Lehigh.....	.18					.14			1.62	.16	.12		.30				.12	.40			.54	T.				.10								3.68
Graterford.....	Schuylkill.....									.43				.38				.08	.32			.17												1.38	
Hamburg.....	Schuylkill.....						.25						1.82	.48			.03					.50												3.08	
Hanover.....	Lower Susq.									.03	.52		.03	.18			.02	.04	.92			.74												2.48	
Harrisburg***	do.....									.92	.22		.10	.25	.02		.07	.20			.82	.54												3.14	
Hawley|||	Upper Del.	.19								1.44				.36	.45			.14	.40			.15	.10											3.23	
Holtwood|||	Lower Susq.									.98	.05	.10		.35				.10	.15			.82	T.											2.55	
Huntingdon.....	Juniata.....					T.				.39	.22		.26	.40	.20		.02	.54			1.31													3.34	
Jersey Shore.....	W. Br. Susq.									.45	.54	.50	.04	1.58			.02	.70	.02			.85												4.70	
Lancaster.....	Lower Susq.									1.25				.46				.03	.62			.76												3.12	
Lansford|||	Lehigh.....	.07					T.			1.60	.06		.20	.50				.06	.19			1.03	.10											3.81	
Lawrenceville.....	N. Br. Susq.									.70	.05		.75				.10	.45			T.	.50												2.55	
Lebanon.....	Lower Susq.									.77	.02		.05	.38			.03		.55			.68												2.48	
Lewisburg.....	W. Br. Susq.					.01				1.05	.33	T.	.03	1.05			.03	.95			.02	.79												4.26	
Lloyd.....	W. Br. Susq.																																		
Lock Haven.....	W. Br. Susq.									.43	.52		.13	1.60			.01	.97			.08	.77												4.51	
Lykens.....	Susquehanna.....									.33	1.33	.03	T.	.35	.70		T.	.15	T.		*	1.14												4.03	
Marcus Hook.....	Lower Del.									.27	.10			*	.17		T.	.22				.78												1.54	
Mauch Chunk.....	Lehigh.....					.02				.88	.99	.05	.13	.70			T.	.39				.99												4.15	
Midlinton.....	Juniata.....									.21	.42	.02	.16	.90			.02	.78			.20	.90												3.61	
Montrose.....	N. Br. Susq.									.65	1.00	.10		1.85			.10	.35				.60												4.65	
Mount Union|||	Juniata.....									.91	.03		.41	.15			.30	.19				1.54												3.53	
Muncy Valley.....	W. Br. Susq.									.32	.97		.08	1.65			1.00	T.				.64												4.76	
Narberth.....	Lower Del.	.02								.48	.03	T.	.12	.47			T.	.05	.23			.63												2.03	
Neshaminy|||	Lower Del.	.04								.30				.48	.03			.12		*	.03	.53	T.	T.										1.53	
Palmerton.....	Lehigh.....				.12					1.24	1.46		T.	.55			.50				.04	.63												4.54	
Philadelphia (a).....	Lower Del.									.16	.07		T.	.11	.24		T.	.15			.02	.48												1.23	
Philadelphia (d)|||	do.....	T.								.29			T.	.27	.02		T.	.20				.50												1.28	
Phoenixville.....	Schuylkill.....									.93			*	.60			T.	.10	.23		T.	.58												2.44	
Pottstown.....	do.....	.02								1.20	.01		T.	.31																					

Daily Precipitation for May, 1923. - Continued from page 19.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Greensburg.....	Youghiogheny								.42	.63	.10	.52	1.25			.02	.66				.80												4.40
Greenville.....	Beaver							*	.85	.15		1.76		*		.26	.49				.86												4.37
Grove City.....	Beaver							T	.14	.30	.15	.30	2.50			.13	1.10	.02	.03		.25	.49											5.41
Herrs Isl. Dam|||	Ohio							T	.64	.12		.77	1.27			.04	.31	.04			.50												3.69
Indiana.....	Conemaugh																																
Ingram.....	Ohio								.51	.32	.06	.42	1.60			.03	.42				.53	.04											3.93
Irwin.....	Youghiogheny								.49	.42	.14	.48	1.62	.01		.02	.47				.47	.11	.21										4.44
Johnstown.....	Conemaugh								.25	.36	.10	.70	.73			.05	.48				.67	.07											3.41
Ketner.....	Allegheny								.25	.72	.10	.21	1.81			.22	.31				.32	.53											4.47
Linesville|||	Beaver								1.08	.14		1.11	.08			.35		.57			.18												3.51
Lock No. 4|||	Monongahela								.72	.21		.75	.30			.02	.40	.46			.32												3.18
Lycippus.....	Conemaugh								.55	.13	.19	.52	.50	.52			.55				.35												3.31
New Castle|||	Beaver								.69	T		1.84	.75			.08	.58	.02			.47												4.43
Newell.....	Monongahela								.70	.11		.71	.37			.30	.15				.32												2.66
North Shenango	Beaver							*	1.00	.07	1.22	.25				.58				*	.22												3.34
Parkers Landing|||	Allegheny							T	.65	.15		1.78	.81			.12	.52	.02	T		.35												4.40
Pennline|||	Beaver								1.05	.11		1.06	.07			.52	.46	.36	*		.18												3.81
Pittsburgh***	Ohio								.61	.11	T	.54	1.21			.33	.05				.49												3.34
Ridgway.....	Allegheny								.28	.54	.07	.19	1.75				.36				1.38												4.57
Saltsburg|||	Conemaugh								.70	.33		1.04	.95			.06	.21	.32			.64	T											4.25
Saegerstown.....	Allegheny								.69	.97	.45	1.00				.46	.75				.05	.15											4.52
Sharon|||	Beaver							T	.57	.08		1.84	.43			.13	.23	.07	.04		.42												3.81
Somerset.....	Youghiogheny										.20	*	.68	.52			.33				.26	.22				.20							2.11
Springdale|||	Allegheny									.65	.20		1.10	1.49			.07	.46		.02	.54	.01											4.54
Stoyestown.....	Conemaugh					.08			.40	.23	.11	.28	.53	.08			.35				.27	.27											2.60
Summit|||	Beaver								1.17	.20		1.28	.08			.54		.60			.10												3.89
Tionesta.....	Allegheny																																
Turnerville|||	Beaver									.50	.20		.90			.25		.50			.30												2.65
Uniontown.....	Monongahela								.42	.53	.06	.40	.43	.11		T	.26				.32	.09											2.62
Unity Reservoir||	Youghiogheny								.40	.97	.18	.56	1.08	.02		.03	.39				.35	.15											4.13
Vandergrift.....	Conemaugh								.30	.57	T	.44	2.36				.62				.53												4.82
Warren.....	Allegheny								.50	.39	.10	.30	1.09			.50	.40	.08			.10	.35											3.81
Washington.....	Ohio								.66	.18	.01	.71	.46			.02	.44	.08			.65												3.21
Waynesburg|||	Monongahela								.68	.20		.67	.26			.40	.15				.22												2.58
Westford|||	Beaver								.83			.33		1.25	.10		.39		.36	.15		.25											3.66
West Newton|||	Youghiogheny								T	.72	.18		.94	.57		T	.29	.32			.49												3.51
Lake Drainage.																																	
Erie***	Lake Erie								.89	.17	.63	.05	.35		T	.79	.11				.08	.15											2.62
West Bingham	Genesee								.10	.25	.05	T	1.42	.03		.75	.75	T			.09	.70											4.14

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. || Post Office address:—Greensburg.

Daily Temperatures for May, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Allentown.....	Maximum...	66	69	71	81	78	74	77	75	53	55	67	78	66	71	69	77	66	71	75	76	67	69	72	74	82	85	84	81	86	79	74	73.2
	Minimum....	38	43	43	42	49	42	45	44	37	34	39	41	44	48	43	53	49	53	50	55	47	48	41	49	45	52	50	56	50	51	46.2	
Altoona.....	Maximum....	66	69	70	77	78	71	75	70	55	51	62	67	59	68	70	72	62	69	72	75	60	66	69	70	76	81	82	81	87	79	76	70.5
	Minimum....	39	37	34	40	47	44	39	47	33	30	33	47	44	31	53	58	45	40	45	49	55	43	44	39	41	45	51	45	57	49	44	43.5
Catawissa.....	Maximum....	71	70	75	83	85	77	81	74	53	52	67	68	68	73	71	80	66	72	79	78	66	68	72	75	80	87	87	83	87	81	80	74.5
	Minimum....	32	33	34	40	34	44	34	45	35	34	30	49	47	34	45	55	50	36	50	45	54	48	43	34	41	46	46	41	48	42	43	41.7
Chambersburg.....	Maximum....	72	69	72	80	80	76	76	78	60	57	64	78	70	70	68	79	72	72	77	78	68	67	68	72	76	83	81	83	87	81	76	73.9
	Minimum....	35	35	37	39	42	49	39	43	35	37	30	50	52	35	54	60	51	41	46	46	59	46	45	39	40	42	49	51	52	53	47	44.5
Emporium.....	Maximum....	64	65	72	80	73	71	76	67	57	51	63	62	59	69	69	73	57	70	73	76	63	63	66	74	82	83	78	82	80	78	70	70.1
	Minimum....	31	29	27	34	42	37	31	42	34	33	27	52	45	28	55	57	45	32	39	41	49	45	36	30	40	40	45	35	44	34	36	38.5
Erie.....	Maximum....	62	56	61	70	58	55	68	61	45	44	66	52	49	61	84	72	52	62	68	76	57	57	53	62	73	79	65	75	68	67	72	62.9
	Minimum....	39	39	44	47	45	40	44	39	32	32	44	40	39	35	55	45	42	44	51	57	45	44	44	42	52	57	53	51	57	50	55	45.3
Grove City.....	Maximum....	71	71	77	82	82	77	79	75	61	52	66	61	59	68	83	79	78	68	73	72	63	62	68	76	80	85	86	83	83	81	81	73.6
	Minimum....									32	30	35	48	40	31		56	41	39	40	58	48	40	43	42	41	44		58	53	53	53	
Harrisburg.....	Maximum....	68	67	71	80	80	75	74	76	61	56	64	78	67	69	67	77	65	72	79	75	71	66	69	73	79	82	82	82	84	78	73	72.9
	Minimum....	45	44	45	48	55	52	49	55	34	38	41	53	51	45	54	61	53	52	58	55	55	50	50	46	49	52	54	52	60	54	54	50.5
Holtwood.....	Maximum....	66	66	66	75	75	70	73	72	59	57	64	75	63	66	66	77	64	68	73	79	72	64	66	72	77	81	81	72	84	75	70	70.6
	Minimum....	45	45	43	46	52	52	48	54	39	37	39	57	50	46	54	63	55	50	55	55	55	55	48	50	48	52	55	55	61	55	55	50.5
Indiana.....	Maximum....																																
	Minimum....																																
Mifflintown.....	Maximum....	72	76	77	85	86	78	77	76	61	56	67	69	68	72	66	78	66	74	80	77	65	71	73	76	82	89	85	85	91	81	78	75.4
	Minimum....	43	37	37	42	46	47	38	51	35	37	32	50	51	35	54	58	52	43	55	49	60	50	49	38	44	45	50	41	53	51	46	45.8
Philadelphia.....	Maximum....	68	69	70	79	75	71	75	73	60	59	68	76	67	71	66	78	70	72	74	76	74	70	70	70	79	82	83	80	87	78	71	72.9
	Minimum....	46	51	47	51	49	53	53	54	41	38	43	57	55	49	49	65	57	54	60	55	56	52	51	51	53	58	57	53	57	53	52	52.3
Pittsburgh.....	Maximum....	68	72	76	79	75	75	79	65	40	54	57	66	57	72	85	71	62	67	76	70	61	66	71	75	79	81	85	85	86	83	83	71.6
	Minimum....	42	42	48	50	52	48	52	35	31	33	44	46	43	40	61	48	45	46	50	61	49	46	50	48	52	52	60	59	61	55	58	48.6
Reading.....	Maximum....	64	65	70	80	78	74	77	75	60	57	68	78	66	68	64	76	65	68	75	74	69	66	70	71	78	81	84	79	86	76	70	72.0
	Minimum....	41	43	45	48	51	53	51	58	38	38	42	55	53	50	52	64	52	52	59	55	57	49	49	47	52	58	57	52	59	53	55	51.2
Scranton.....	Maximum....	63	64	70	77	79	72	79	74	58	52	64	63	62	70	65	77	61	68	76	75	62	63	66	71	83	86	75	72	78	76	77	70.4
	Minimum....	40	39	40	46	50	45	40	54	33	34	32	50	44	38	55	61	50	45	52	48	49	47	44	39	45	52	53	46	50	48	52	45.8
Somerset.....	Maximum....	65	70	68	77	78	71	68	70	59	50	52	68	57	70	67	67	57	50	71	74	73	61	65	71	73	80	82	85	85	78	76	69.0
	Minimum....	35	31	30	24	45	40	40	41	30	27	38	48	41	42	40	30	50	35	41	52	47	45	38	38	47	40	40	48	50	45	48	40.3
State College.....	Maximum....	62	63	70	78	79	63	67	65	54	50	59	65	60	67	65	67	60	63	65	67	59	62	65	70	77	73	77	73	74	76	71	66.6
	Minimum....	36	37	34	42	49	39	40	52	30	30	33	46	43	32	52	59	44	41	47	48	55	43	42	34	44	47	51	43	49	44	44	42.9
Towanda.....	Maximum....	62	60	68	76	77	69	77	74	57	48	64	67	61	66	62	75	67	67	71	77	66	60	62	69	80	84	72	75	76	74	73	68.9
	Minimum....	33	33	32	39	44	39	31	53	35	30	30	49	42	30	54	61	48	38	44	41	49	43	37	31	39	45	47	39	45	38	38	40.7
Uniontown.....	Maximum....	68	70	78	82	76	75	82	68	59	57	60	71	62	76	87	82	68	77	76	65	64	71	76	83	82	86	88	86	84	82	74.3	
	Minimum....	36	36	49	53	58	46	53	54	33	32	41	54	46	37	63	59	46	42	44	59	53	45	48	50	55	52	56	65	66	62	61	49.8
Warren.....	Maximum....	66	69	70	84	70	75	78	65	50	50	55	52	65	80	70	55	70	74	76	62	63	67	78	85	88	81	87	87	83	82	70.5	
	Minimum....	29	30	30	36	42	35	36	40	38	30	30	43	40	28	53	50	40	32	40	42	45	38	35	30	40	42	44	38	42	34	37	37.7
Wellsboro.....	Maximum....																																
	Minimum....																																
Williamsport.....	Maximum....	67	67	74	82	84	76	78	71	57	57	67	58	69	67	65	75	73	73	79	77	72	66	69	75	84	85	82	83	88	80	81	73.6
	Minimum....	35	37	36	44	46	45	39	54	35	35	32	42	47	35	54	56	50	37	49	47	58	49	43	36	43	49	50	43	50	43	45	44.2

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXVIII.

JUNE, 1923.

No. 6.

GENERAL SUMMARY.

The weather was remarkably warm and dry, especially so in the eastern part of the State. At Philadelphia it was both the warmest and driest June for more than 50 years. Since there had been practically no rain during the last ten days of May, the growth of pastures began to be impaired early in the month, but conditions were relieved by showers that occurred mostly between the 3d and 8th. After that time, there were no general heavy rains, and at the close of the month serious drought conditions prevailed in a good many places.

TEMPERATURE.

The average temperature for the State, as determined from the records of 84 stations, was 70.9°, or 3.3° above normal. Station monthly means ranged from 76.1° at Marcus Hook to 62.7° at West Bingham. The extremes were 103° at Lancaster on the 20th and 32° at West Bingham on the 30th.

PRECIPITATION.

The average precipitation for the State, as determined from the records of 115 stations, was 2.73 inches, or 1.76 inches below normal. Station totals ranged from 7.99 inches at Creekside to 0.41 inch at Bethlehem. The greatest 24-hour rainfall was 4.79 inches at Creekside on the 24th.

UNUSUAL STORMS.

At Carlisle, Cumberland County, there was a heavy thunderstorm on the 3d attended by damaging winds that blew down telephone poles and trees. There was also some injury to crops done by hail at that time.

At Clymer, Indiana County, there was a destructive wind on the 23d that damaged six houses under construction at the time. One of these was moved completely off the foundation. On the evening of the following day there was a severe hailstorm, which old inhabitants said was the worst they had ever seen in that section. Fields of grain and garden vegetables were badly cut up by the hailstones, which were as large as hickory nuts.

At West Bingham there was a heavy hailstorm on the 7th in which some of the pellets were said to have been nearly an inch and a half in diameter. Whether owing to short duration of the storm or the place of its occurrence, the resulting damage was said to have been slight.

At Pittsburgh there were severe thunderstorms attended by damaging lightning on the 15th and 19th. Both storms were accompanied by rainfall sufficient to cause washouts and interrupt traffic. During the first one a boy was killed and several buildings were damaged by lightning. On the same day a man was killed by lightning near New Castle. Shortly after 2 p. m., lightning struck one of the large crude-oil tanks of the Atlantic Refining Company in the midst of their Pittsburgh plant at 58th and Butler Streets. One of the city's most disastrous fires for many years resulted. At least six other crude-oil tanks near by exploded during the course of this great fire. Fourteen firemen were injured within the first few hours of the struggle with the flames, eleven families were driven from their homes, and resort was made to the construction of dykes and ditches to prevent streams of burning oil from flowing away and setting fire to surrounding properties.

G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.		
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.
Erie.....	351.9	455.1	77	66	62	8,594	11.9	48	w.
Harrisburg.....	311.8	448.9	69	65	63	4,326	6.0	34	nw.
Philadelphia.....	342.9	448.9	76	61	54	6,943	9.6	40	n.
Pittsburgh.....	316.0	452.0	70	73	60	6,138	8.5	51	nw.
Reading.....	308.0	449.0	69	70	65	2,510	3.5	24	sw.
Scranton.....	.....	.....	.....	78	65	4,620	6.4	36	sw.

* For any five-minute period.

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	68.4	100	30	3.04	6.90	1.08	.....	.....	.....
1889.....	66.7	95	33	5.43	10.04	2.71	.....	.....	.....
1890.....	70.1	97	33	3.42	5.74	1.30	12	11	7
1891.....	68.2	100	30	4.50	9.30	1.22	14	8	8
1892.....	71.8	99	40	5.64	10.55	1.83	9	11	10
1893.....	69.8	100	38	3.12	6.50	1.20	10	11	9
1894.....	69.6	102	30	2.57	5.31	0.61	13	12	5
1895.....	71.4	104	32	3.50	9.21	0.69	13	10	7
1896.....	67.4	98	32	4.64	9.11	1.89	10	11	9
1897.....	64.8	96	28	3.38	6.42	1.11	11	11	8
1898.....	69.6	100	33	2.79	6.96	0.56	14	11	5
1899.....	69.9	101	32	3.51	5.97	0.65	13	11	6
1900.....	69.9	97	35	3.60	10.29	1.35	11	12	7
1901.....	69.1	103	32	3.47	7.61	0.88	12	11	7
1902.....	66.0	97	32	5.97	8.93	3.35	11	12	7
1903.....	63.5	90	34	6.53	11.76	3.74	7	10	13
1904.....	67.9	96	32	4.06	6.67	1.62	12	10	8
1905.....	68.0	99	30	4.39	8.35	1.77	11	10	9
1906.....	69.3	97	28	5.43	10.29	1.40	11	12	7
1907.....	63.6	98	30	4.99	8.55	2.79	11	9	10
1908.....	68.8	102	28	2.36	4.61	0.58	19	9	2
1909.....	68.8	96	34	4.48	8.96	1.89	12	9	9
1910.....	65.4	95	32	4.31	8.68	1.33	12	8	10
1911.....	68.3	99	35	4.71	10.11	2.13	12	10	8
1912.....	65.6	96	29	3.36	8.58	0.79	13	9	8
1913.....	68.2	99	20	2.26	7.61	0.66	19	7	4
1914.....	68.6	101	25	3.71	7.05	1.17	16	8	6
1915.....	69.6	89	48	3.30	8.04	0.74	8	14	8
1916.....	63.7	89	28	6.14	12.45	2.83	11	10	9
1917.....	66.8	92	32	5.38	9.85	2.25	12	11	7
1918.....	66.0	98	29	3.42	2.65	0.44	15	11	6
1919.....	71.2	102	32	3.90	9.17	1.74	16	9	5
1920.....	67.0	99	32	4.97	8.37	2.25	12	11	7
1921.....	70.6	101	26	3.12	9.86	0.70	17	9	4
1922.....	69.5	96	30	5.11	12.46	1.78	11	11	8
1923.....	70.9	103	32	2.73	7.99	0.41	16	9	5

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	2.6	4.2	9	1.8	25	18
Phillipsburg.....	Delaware.....	1.5	3.3	10	0.6	27	22
Mauch Chunk.....	Lehigh.....	3.7	4.3	8	3.4	20	12
Wilkes-Barre.....	Susquehanna.....	3.6	5.8	10	2.4	28	20
Williamsport.....	Susquehanna.....	1.3	2.7	1	0.5	25	20
Harrisburg.....	Susquehanna.....	3.9	4.4	1	3.4	28	17
Freeport.....	Allegheny.....	2.5	3.4	1	1.6	22	22
West Newton.....	Youghiogheny.....	0.9	3.7	30	0.3	21	20
Lock No. 4.....	Monongahela.....	14.2	20.4	29	12.8	6	31
Pittsburgh.....	Ohio.....	7.9	10.4	30	7.2	6	22
Beaver Dam.....	Ohio.....	8.3	10.3	30	7.5	1	30

Climatological Data for June, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation of in. or more.	Clear.	Pt. cloudy.		Prevailing direction of wind.	
Atlantic Drainage.																				
Allentown	Lehigh	254	11	74.2		100	20	51	9	34	0.69	-2.75	0.28	0	6			w.	John A. Frick.	
Altoona	Blair	1,615	36	69.9	+3.7	94	19	42	30	40	2.14	-1.78	0.37	0	16	15	12	3	w.	Lewis E. Biller.
Bethlehem	Northampton	295	39	73.6	+3.8	97	25	49	11	40	0.41	-3.76		0				w.	E. E. McCall.	
Biglerville	Adams		1	74.1 ^d		100 ^d	20 ^d	46 ^d	30	37 ^d	1.86		0.47	0				w.	R. C. Walton.	
Bustleton	Philadelpia	125	4	74.0		100	20 ^d	49	1	37	2.66		0.75	0	7	15	9	6	sw.	Experiment Station.
Carlisle	Cumberland	467	56	74.2	+3.3	100	20 ^d	48	30	37	5.24	-1.40	1.78	0	13	19	6	5	sw.	Prof. C. E. Miller.
Catawissa	Columbia	520	26	72.0	+4.3	101	20	43	30	42	3.21	-0.68	0.75	0	11	25	3	2		H. H. Vetter.
Center Hall	Center	1,272	27	71.4	+5.3	98	19	48	1	39	2.72	-1.28	0.66	0	10	16	12	2		S. W. Smith.
Chambersburg	Franklin	580	23	72.2	+2.8	98	21	43	30	40	1.67	-2.34	0.29	0	11	16	9	5	sw.	William B. Spear.
Clearfield	Clearfield	1,120	13	71.7	+4.4	101	21 ^d	40	1 ^d	53	2.37	-2.99	0.53	0	7	21	8	1	sw.	E. W. Hess.
Coatesville	Chester	380	35	73.3	+3.4	98	20	43	1 ^d	34	1.59	-2.45	0.54	0	8	12	15	3	sw.	Prof. W. T. Gordon.
Colebrook	Lebanon	1,050	13	71.6		100	20	45	30	39	1.59	-2.50	0.61	0	9	18	7	5	sw.	Wm. A. Rorer.
Emporium	Cameron	560	35	67.9		93	24	40	13	43	2.05	-2.48	0.96	0	9	15	13	2	w.	T. B. Lloyd.
Ephrata	Lancaster	1,380	22	73.5	+5.5	98	20 ^d	48	1 ^d	38	1.71	-2.51	0.62	0	6	15	11	4	w.	E. K. Hershey.
Everett	Bedford	1,040	25	71.6	+4.7	95	23	44	30	36	2.75	-2.26	0.75	0	9	11	13	6	nw.	J. E. Thropp Co.
Freeland	Luzerne	1,970	8	67.0		92	20 ^d	38	16	35	3.90		1.18	0	10	11	13	6	nw.	Theo. Reichmann.
George School	Bucks	190	16	72.8 ^a	+5.1	99 ^a	20 ^d	46 ^a	1	39 ^a	1.94	-1.29	0.67	0	5			w.	Prof. N. W. Swayne	
Gettysburg	Adams	800	49	74.2	+4.6	101	20 ^d	47	30	39	1.62	-2.28	0.35	0	10	17	10	3	w.	Col. E. B. Cope.
Gordon	Schuylkill	640	19	69.4	+4.2	96	20	39	30	43	1.81	-2.59	0.49	0	8	18	5	7	w.	Capt. J. G. Johnson.
Hamburg	Berks	535	30	72.4	+2.9	100	20	43	30	41	0.99	-3.23	0.67	0	4	23	4	3	w.	State Sanatorium.
Hanover	York	600	19	74.2	+3.6	98	20 ^d	50	14 ^d	55	2.58	-1.15	0.66	0	10	17	9	4	w.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	53	74.0	+3.7	98	21	54	30	29	2.30	-1.25	0.76	0	12	6	13	11	w.	U. S. Weather Bureau.
Hawley	Wayne	900	4	68.5		96	19	38	30	43	3.99		2.15	0	9				J. S. Pennell.	
Huntingdon	Huntingdon	650	35	71.2	+3.0	100	21	41	30	46	1.69	-2.79	0.53	0	10	15	9	6	w.	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	3	72.7		99	20	44	30	45	3.13		1.25	0	10	24	4	2		C. B. McCullough.
Kennett Square	Chester	340	51	74.0	+5.1	101	21	48	1	37	0.75	-3.54	0.24	0	7	24	5	1	sw.	W. P. Mercer.
Lancaster	Lancaster	255	35	73.0	+2.9	103	20	45	30	50	1.79	-2.20	0.68	0	8	20	8	2	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	25	69.2	+4.0	96	19 ^d	39	30	50	2.10	-1.79	0.80	0	9	17	10	3		C. P. Darling.
Lebanon	Lebanon	469	82	73.7	+4.4	102	20	48	30	37	1.88	-2.18	0.75	0	10	19	8	3	sw.	S. B. Benzing.
Lewisburg	Union	450	48	73.4	+6.2	101	20 ^d	43	30	42	1.92	-2.24	0.32	0	12	13	10	7	w.	Prof. W. G. Owens.
Lock Haven	Clinton	616	34	73.0 ^a	+3.6	98 ^a	21	43 ^a	30	42 ^a	2.30	-2.10	0.57	0	12	21	5	4	se	R. Scott Kift, C. E.
Lykens	Dauphin	680	8	70.6		101	20	40	30	44	2.36		0.64	0	10	21	6	3	nw.	Susquehanna Collieries Co.
Marcus Hook	Delaware	50	3	76.1		100	24	55	14	32	0.96		0.38	0	8	11	17	2	sw.	Gen. Chemical Co.
Mauch Chunk	Carbon	600	33	71.0	+3.2	98	24 ^d	43	30	42	2.10	-2.20	0.69	0	8	22	2	6	w.	R. K. Wintermute.
Mifflintown	Juniata	445	19	74.0	+6.2	102	21	44	30	41	2.02	-2.34	0.51	0	12	10	10	10	nw.	Wellington Smith.
Montrose	Susquehanna	1,658	20	66.8	+4.1	91	20	40	10 ^d	30	3.31	-0.51	0.65	0	9	24	3	3	w.	Silas Jagger.
Muncy Valley	Sullivan	1,045	11	68.6		98	20 ^d	39	30	45	1.85	-3.25	1.18	0	5	12	16	2	sw.	A. H. Boatman.
Narberth	Montgomery	300	4	73.8		99	21	50	1	34	1.27		0.63	0	7	17	9	4	sw.	Charles Decker.
Neshaminy Falls	Bucks	60	34	72.6		100	20 ^d	44	1	40	3.27		1.08	0	6	23	2	5	sw.	North Springfield Water Co.
Palmerton	Carbon	398	6	72.6		99	24	45	30	42	1.79		0.72	0	6	23	4	3	ne.	F. G. Breyer.
Philadelphia (a)	Philadelphia	117	52	75.8	+4.4	99	21	54	1	29	0.65	-2.65	0.20	0	6	12	12	6	nw.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	7	75.6		100	21 ^d	53	1	31	0.84		0.25	0	4				Commandant, Navy Yard.	
Phoenixville	Chester	100	12	74.4		99	20 ^d	46	30	39	0.95		0.50	0	4				North Springfield Water Co.	
Quakertown	Bucks	496	38	70.1	+1.9	96	20 ^d	41	30	41	1.11	-2.55	0.40	0	6	11	15	4	w.	John E. Benner.
Reading	Berks	325	53	74.8	+5.0	101	20	52	30	31	0.54	-3.13	0.15	0	9	14	11	5	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	28	70.2	+3.0	95	20	44	16	34	3.05	-0.52	0.88	0	13	9	12	9	s.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	33	71.7	+2.7	99	20	44	30	42	2.09	-2.16	0.80	0	10	11	14	5	sw.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	27	74.5		99	21	52	1 ^d	33	0.75	-2.72	0.30	0	4	20	8	2	nw.	W. S. Guiles.
State College	Center	1,217	38	68.0	+1.5	94	19 ^d	44	30	37	2.92	-1.45	1.07	0	12	18	10	2	w.	C. A. Kern.
Towanda	Bradford	754	28	70.0	+4.7	94	24	41	30	41	3.51	-0.08	1.37	0	13	12	14	4	sw.	Hiran E. Bull, C. E.
Wellsboro	Tioga	1,419	57	65.4	+0.9	93	25	35	30	48	1.39	-2.66	0.44	0	6	25	4	1	sw.	George W. Hill.
West Chester	Chester	455	85	73.0	+3.6	98	21	50	11	35	1.19	-3.00	0.49	0	6	14	14	2	w.	Arthur M. Hay.
Williamsport	Lycoming	521	36	73.2	+4.7	101	20	46	30	40	1.88	-2.02	0.52	0	9	19	9	2	se.	Jacob April.
York	York	400	35	72.0	+2.1	98	20	42	1	44	3.68	+0.20	2.08	0	9	16	10	4	s.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	50	71.6		99	19	45	10	39	2.79	-1.86	0.69	0	14	9	10	11	sw.	U. S. Engineer.
Bradford	McKean	1,427	8	68.0		94 ^b	23	34 ^b	14	48 ^b	3.90		1.55	0	10	15	8	7	sw.	City Engineer.
Bradys Bend	Armstrong	930	5	67.0		96	21	36	10	52	2.19		0.60	0	8	14	6	10	w.	Edward R. Dewey.
Brookville	Jefferson	1,173	32	66.1 ^a	+2.6	101 ^a	24	34 ^a	30	51 ^a	2.17	-2.08		0		21	5	4		John Fawcett.
Claysville	Washington	1,150	19	70.9	+2.7	98	21	39	30	44	3.12	-1.03	1.10	0	15	16	6	8	n.	J. L. Melvin.
Corry	Erie	1,430	11	66.5		92	24	38	30	43	3.25		1.47	0	8	14	14	2		Nevin R. Dickson.
Derry	Westmoreland	1,172	26	70.3	+1.7	95	21	42	30	43	4.79	-0.06	1.58	0	11	9	14	7	w.	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	5	64.8		91	21 ^d	33	30	47	3.16		0.61	0	11	17	9	4	sw.	D. H. Jones.
Elk Lick	Somerset	2,680	6	67.8		89	19	38	30	28	6.74		1.95	0	9	15	10	5	w.	J. S. Stevanus.
Franklin	Venango	957	50	68.0	+2.4	96	23	38	14	45	2.08	-2.69	0.62	0	7	25	1	4	w.	F. E. Dixon.
Greensburg	Westmoreland	1,150	15	70.4	+3.3	95	21 ^d	42	30	37	4.75	+0.65	1.35	0	9	8	16	6	n.	Westmoreland Water Co.
Greenville	Mercer	950	28	70.2	+4.1	96	21 ^d	38	30	43	1.85	-2.36	0.85	0	6	7	17	6	sw.	J. R. Marks.
Grove City	Mercer	1,256	16	68.4	+3.6	94	22	39	30	40	2.77	-1.27	1.50	0	6	18	6	6	sw.	Prof. H. W. Harmon.
Indiana	Indiana	1,350	26			93 ^r	18 ^d				4.07	-0.76		0					R. W. Wehrle.	
Ingram	Allegheny	850		70.8		93	21	42	30	38	4.13		1.23	0	13	9	16	5	sw.	W. R. Gornly.
Irwin	Westmoreland	884	26								2.38	-2.27	0.80	0	12	21	8	1		J. B. Gallagher.
Johnstown	Cambria	1,184	41	71.6	+2.7	100	22	43	30	44	5.04	-0.15	1.35	0	13	10	15	5	s.	E. C. Lorentz.
Lycippus	Westmoreland	1,420	31	70.8	+2.9	94	22	45	30	34	4.74	+0.25	1.30	0	8	13	5	12	w.	Westmoreland Water Co.
New Castle	Lawrence	808	40	69.6	+0.4	96	22 ^d	41	9 ^d	39	2.47	-1.97	1.59	0	6				s.	New Castle Water Co.
Newell	Fayette	800	3	71.8		94	21	46	30	35	3.34		1.26	0	11	19	3	8	sw.	Gen. Chemical Co.
Pittsburgh	Allegheny	842	80	71.6	+0.9	92	21	46	30	32	4.28	+0.39	1.40	0	12	6	15	9	w.	U. S. Weather Bureau.
Ridgway	Elk	1,420	19	66.3		91	24	37	30	44	1.33	-3.10	0.43	0	5	12	9	9	w.	Earl Overholser.
Saegertown	Crawford	1,116	31	67.4	+2.7	95	21 ^d	35	1											

The departures from normal temperature and precipitation are computed only from records for stations that have ten or more years of observation, but all complete reports are used in determining means for the State. † On other dates also.

Reference letters, ^a, ^b, ^c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record. T, indicates precipitation less than .01 inch, rain or melted snow.

†† Post-Office addresses are as follows of Beaver Dam, Beaver; of Bradys Bend, East Brady; of Lycippus Greensburg; of Neshaminy, Oakford

Daily Precipitation for June, 1923.

Stations	Drainage Basin.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic Drainage.																																			
Allentown	Lehigh				.03		.01									.08																0.69			
Altoona	Juniata	.21	.02		.06	.06	.20	.18				.01				.26							.07	.02	.03	.25	.37	.02	.31	.07		2.14			
Ansonia	W. Br. Susq.			.18	.06			.19	.38	T						.04	T															1.69			
Bethlehem	Lehigh																															0.41			
Biglerville	Susquehanna	.20			.24		.01					.12		.16	.17									.27		.47			.22			1.86			
Blossville	Lower Susq.	.75	.63	.78	1.05	.35									.25									.85								5.26			
Bustleton	Lower Del.	.70	.61				.75	T				.03				.07									.40		.10					2.66			
Carlisle	Lower Susq.	.52	1.78	.08	.52	.48	.09					.02			.07	.06							1.22			.02		.30	.08			5.24			
Catawissa	N. Br. Susq.		.15		.14	.61	.13	.01	T							.20									.24	.39		.68	.56	.10		3.21			
Center Hall	Susquehanna	.48				.38	.04									.04				.10		.10		.66	.14	.20	.64	.14				2.72			
Chambersburg	Potomac			.09		.29	.13	.02			.22		.05		.28											.14	.20	T	.20	.12		1.67			
Clearfield	W. Br. Susq.	.32					.50	.38							.03					T						.11		.53	T	.13		2.07			
Coatesville	Lower Del.		.47				.54					.02		.04		.03								.05		.43			.01			1.59			
Colebrook	Lower Susq.		.38	T	.05	.19	.05					T		T		.06								.07	.61	T		.15	.03			1.59			
Cresson	Juniata	.01				1.03	.28	.23	.04				*	.04		.30	.06							.15	.03	.90		.03	T	*	.46	3.56			
Doylestown	Lower Del.	.12					1.39					T		T													.06	.22	.10			1.89			
Driftwood	W. Br. Susq.		.10	.10		.25	2.00	.25																				.78	.25			3.73			
Emporium	W. Br. Susq.		.09	.16			.25	.13							.11	.10												.96		.10	.15	2.05			
Ephrata	Lower Susq.		.13		T	.61								.05		.20	.20								.21	.62			.09			1.71			
Everett	Juniata			.20	.40			.14	.29	.11		.30			.20	.20									.15	.45	.10		.75			2.75			
Forest City	N. Br. Susq.		.28	.14	.41			.18	.26	.94	.08					.35													.01	.20		2.50			
Freeland	Lehigh			.40												.18													.13	.01	.70	3.90			
George School	Lower Del.		.47					.33										.02											.45	T		1.94			
Gettysburg	Potomac	.03				.10	.08					.19		.18	.35											.27	.21		.14	.07		1.62			
Girardville	Susquehanna		.45		.05	T	.27	.01								.19									.02		.04		.41		.64	.11	2.19		
Gordon	Lower Susq.						T	.07	T							.10											.11	.10	.31	.33	.49	.30	1.81		
Gouldsboro	Lehigh			.45	.18				1.96							.47											.24		.22		1.32	.25	5.57		
Graterford	Schuylkill		.21			.03	.06										.01											.18	.23		.04	0.76			
Hamburg	Schuylkill		.14	.18																										.45	.22	0.99			
Hanover	Lower Susq.		.54			.07						.17		.08		.11	.30									.14	.44	.66		.07		2.58			
Harrisburg	do	.12	.24	.01	.67	.13	T							.01		.06										.44	.40		.02	.18	.02	2.30			
Hawley	Upper Del.			.13	.30	.12	.04	2.15								.34												.25		.41		3.99			
Holtwood	Lower Susq.		.14	.15			T							.09	.05	.03	.01	.31										.03	.56	.15		.02	1.54		
Huntingdon	Juniata	.24				.53	.13	.05								.10											.02	T	.26	.01	.29	.06	1.69		
Jersey Shore	W. Br. Susq.		.01	T	.01	.23	.60									.14										.20		1.25	T		.34	.12	3.13		
Kennett Square	Delaware		.24				.10					.09		.03	.05													.12				0.75			
Lancaster	Lower Susq.		.26			.15									.03												.38	.30		.56	.09	.02	1.79		
Lansford	Lehigh		.05	T		.03	.34								.23													.13			.14	T	2.11		
Lawrenceville	N. Br. Susq.		.80		.05	.25	.40	.05				T	T		.20	T													.10	.15		2.10			
Lebanon	Lower Susq.		.38		.12	.05									.05													.07	.04	*	.75	.19	.20	1.88	
Lewisburg	W. Br. Susq.		.01	.05		.28		.26							.12						.05					.27	.07	.16	.15		.20	.20	.17	1.92	
Lloyd	W. Br. Susq.		.20			.68									.42														.52		.08		1.90		
Lock Haven	W. Br. Susq.		.19		.02	.18	.48								.01							.27		.19		.08		.42	.15	.10	.20		2.30		
Lykens	Susquehanna	.25	.01	.05		.05									.01														.19	.31	.27		.58	.64	2.36
Marcus Hook	Lower Del.		.23			.38						.09		T	.12						.04		.05						.03		.02		0.96		
Mauch Chunk	Lehigh		T			.45	.24	.10	.08						.23														.06		.64	.30	2.10		
Mifflintown	Juniata	.25	.27			.13	.03	.06								.02					.01							.33	T	.11	.24	.51	.06	2.02	
Montrose	N. Br. Susq.		.40		.20	.26	.55									.65													.40		.43		.08	.34	3.31
Mount Union	Juniata	.12	.08		.39	1.16									.20														.10	.08		.57		3.14	
Muncy Valley	W. Br. Susq.				.07	1.18										T													.44	.10	.08		.23	T	1.85
Narberth	Lower Del.		T	.43		T	.03					.02	T	.02		.09														.63		.05	T	.24	1.27
Neshaminy	Lower Del.			.96			.05	.03								.11														1.04		1.08		3.27	
Palmerton	Lehigh		T		.41	.03									.25														.72		.33		.05	1.79	
Philadelphia (a)	Lower Del.		.09			T	.17		T		.03		T		.04														.20		.12	T		0.65	
Philadelphia (d)	do			.25		.25	.09					T		T		T													.25		T	T		0.84	
Phoenixville	Schuylkill		.50			.11					T				T																			0.95	
Pottstown	do			T		T	.10									.04																			

Daily Precipitation for June, 1923.—Continued from page 23.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Freeport||	Allegheny.....						T.	.68	.24			.03	.06			.42	.10			.17				1.46	1.27		.56	T.	.53			5.52	
Greensburg.....	Youghiogheny.....	T.					.12	.25	.10			.22	T.			1.35							1.09	1.26		.06	T.	.30			4.75		
Greenville.....	Beaver.....						.133									.10							T.				T.	.23			1.85		
Grove City.....	Beaver.....			.35			.30	.20	1.50																.25	T.	.17				2.77		
Herr's Isl. Dam|||	Ohio.....						T.	1.45	.10			.17	.04				.03	.61					.86	.12	.12	.57	T.	.12	T.	.27		4.46	
Indiana.....	Conemaugh.....																														4.07		
Ingram.....	Ohio.....				.01		T.	1.23	.10			.21			.01	1.10				.30			.05	.06	.71		.09	T.	.25	.01		4.13	
Irwin.....	Youghiogheny.....	.12					.02	.27	.18			.22	.01			.43				.01			T.			.80	.05		.16	.11		2.38	
Johnstown.....	Conemaugh.....				.30		1.35	.99	.14			.21		.01		.25									.45	.23	.80	.01	.25	.05		5.04	
Ketner.....	Allegheny.....		.08	.90			.05	.24	.96																		.24		.11	.10		2.68	
Linesville||	Beaver.....				.08		.11	.62	.11														.92					.16		.34		2.34	
Lock No. 4|||	Monongahela.....		.02				.06	.20	.40			.16	.63				.07							.29	T.	.30		.31		.29		2.13	
Lycippus.....	Conemaugh.....					T.	T.	.72	.24			.24				.62							1.30	.20		1.20			.22			4.74	
New Castle|||	Beaver.....			.06			1.59	.13				.03			.44														.22			2.47	
Newell.....	Monongahela.....	.02					.14	.21				.23				.23				.12			.23	.02	.59	1.26		.29				3.34	
North Shenango.....	Beaver.....						T.	.35	.52														.25				.32			.35		2.09	
Parkers Landing|||	Allegheny.....						T.	.60	.18							.34							.35		.02		.87		.24			2.62	
Pennline|||	Beaver.....				.05		.33	1.13	.30																		.11					2.27	
Pittsburgh***	Ohio.....					T.	.28	1.21	T.			.19			.02	.31				1.07			.13	.15	.53		.07	T.	.31	.01		4.28	
Ridgway.....	Allegheny.....		.25					.41								.12											.43					1.33	
Saltsburg|||	Conemaugh.....					T.		2.54	.12			.07	.10			.14	.13							.05	T.	1.64		.34	T.	.37		5.60	
Saegertown.....	Allegheny.....							1.00	.17															.63				.40				2.48	
Sharon|||	Beaver.....						.03	.85	.18							.20						.03							.02	.16		1.47	
Somerset.....	Youghiogheny.....					.20		.48	.39			.40				.30	T.						.40	2.50		1.39		1.52	.25			7.83	
Springdale|||	Allegheny.....					.01	.01	2.58	.10	.01		.13	.01			.10	.10					.04				.51	1.04		.34	.01	.31		5.80
Stoyestown.....	Conemaugh.....						.09	.80	.06			.29				.88								1.38	1.14	.01	.74	.02	.64	.42		6.47	
Summit|||	Beaver.....				.45		.20	1.13	.20													.32						.07		.52		2.89	
Tionesta.....	Allegheny.....																										.27						
Turnerville|||	Beaver.....							.40	2.05						.10									.90				.30		.22		3.97	
Uniontown.....	Monongahela.....					.08	.30	.30				.42	T.			.54	.02									1.22	.01	.73	.80	.17		4.59	
Unity Reservoir||	Youghiogheny.....						.46	.29				.21				1.00								1.50	.09		1.04	.03		.15	.13	4.90	
Vandergrift.....	Conemaugh.....					.14	.32	.81	.61			.11				.35											1.84	1.08		.18	.19	6.63	
Warren.....	Allegheny.....		.08	.06			.08	.60	.04																			.63	.02	.23		1.74	
Washington.....	Ohio.....	.11				.34	.02	.95	T.			.20				.18				1.40				.06	1.73		.69	.01	.34		6.03		
Waynesburg|||	Monongahela.....		.03			.18	T.	.40	.12		.32		.14			.57										.18	.95		.11		.65	3.65	
Westford|||	Beaver.....						T.	.30	.15																		.62		.18		.32	1.57	
West Newton|||	Youghiogheny.....						T.	.21	.24			.19	.05				.24								.03	T.	.77		.02	.26		2.03	
Lake Drainage.																																	
Erie***	Lake Erie.....						.01	.83	.02						T.													T.	T.	.31		1.17	
West Bingham.....	Genesee.....			.20				1.40	.20	.06					T.											.18		.82		.15	.10		3.11

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Post Office address:—Greensburg

Daily Temperatures for June, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
Allentown.....	Maximum	83	94	93	99	94	92	88	70	71	80	74	80	72	88	81	80	89	94	95	100	98	93	94	98	98	95	82	78	75	79	.....	86.7
	Minimum	59	62	62	68	64	70	67	56	51	54	54	59	54	61	54	52	58	60	70	69	68	65	69	74	67	64	60	57	52	.....	61.4	
Altoona.....	Maximum	87	88	87	90	89	82	81	75	70	77	73	76	70	81	77	79	85	88	94	92	93	92	92	93	89	84	75	68	68	73	.....	82.3
	Minimum	49	60	62	63	65	65	65	57	47	46	57	50	52	55	58	49	45	54	60	66	62	66	64	66	65	71	57	53	53	42	.....	57.5
Catawissa.....	Maximum	87	95	92	94	95	88	84	67	74	81	73	82	73	86	79	82	89	95	98	101	99	98	97	98	98	92	83	83	77	80	.....	87.3
	Minimum	49	54	57	52	62	67	65	61	54	46	50	52	48	57	46	47	53	60	63	61	62	66	66	67	71	62	57	55	43	.....	56.8	
Chambersburg.....	Maximum	85	93	90	91	91	81	86	82	76	81	78	74	70	85	83	82	88	89	95	97	98	94	94	96	95	92	86	74	74	78	.....	85.9
	Minimum	50	53	57	57	60	68	63	61	54	46	59	50	58	46	56	52	63	52	58	64	65	67	68	67	67	67	65	61	58	43	.....	58.5
Emporium.....	Maximum	87	86	88	88	89	85	82	67	69	76	72	76	76	81	75	78	84	82	92	92	92	91	91	91	93	92	87	75	62	68	72	81.8
	Minimum	44	50	60	60	60	67	65	55	53	44	50	49	40	42	58	43	42	50	58	50	58	58	62	65	68	65	57	52	52	42	.....	54.0
Erie.....	Maximum	82	82	84	84	84	76	74	64	64	70	69	66	71	76	67	74	81	88	88	90	88	89	89	89	89	89	86	71	66	64	70	77.8
	Minimum	58	69	70	72	73	65	62	51	52	53	59	55	49	55	54	51	58	65	72	75	70	72	72	74	70	65	62	56	54	51	.....	62.1
Grove City.....	Maximum	88	87	87	89	90	80	79	79	62	76	72	75	72	80	76	77	83	90	92	91	93	94	92	93	90	86	61	68	64	70	.....	81.9
	Minimum	54	57	60	64	63	56	64	50	45	43	55	50	46	41	57	48	43	52	60	63	61	65	63	63	63	70	55	49	47	39	.....	54.9
Harrisburg.....	Maximum	84	90	90	93	93	84	86	75	75	80	67	77	68	84	82	82	87	89	93	98	98	94	88	94	93	91	80	70	73	76	.....	84.5
	Minimum	55	65	62	65	68	70	68	59	57	57	59	57	59	55	62	59	58	62	64	73	73	72	67	68	72	75	68	62	59	54	.....	63.5
Holtwood.....	Maximum	82	88	90	90	91	84	82	77	73	77	66	77	63	82	79	77	86	88	90	95	95	90	84	93	92	91	81	79	.....	73	.....	83.2
	Minimum	55	64	63	63	70	72	68	61	59	57	59	57	55	52	61	55	63	61	64	68	72	68	66	72	70	77	70	64	.....	54	.....	63.4
Indiana.....	Maximum .....	.....	.....	.....	.....	.....	.....	87	89	90	78	74	74	76	81	82	81	87	97	90	95	96	96	94	97	89	90	80	72	71	74	.....	.....
	Minimum .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42	57	50	52	47	55	50	41	56	58	61	60	68	67	68	63	68	56	53	52	40	.....	.....
Mifflintown.....	Maximum	89	92	92	94	94	85	85	82	78	83	75	80	75	88	84	86	91	94	97	100	102	96	95	96	97	94	82	73	72	79	.....	87.7
	Minimum	52	57	61	62	63	68	65	62	55	53	60	53	58	50	61	54	50	56	62	61	66	68	69	69	70	76	64	61	60	44	.....	60.3
Philadelphia.....	Maximum	81	94	91	88	89	91	88	81	72	80	71	79	70	86	83	81	88	89	90	94	99	86	81	99	95	93	85	84	76	78	.....	85.6
	Minimum	54	67	66	67	72	74	71	64	59	60	61	60	59	57	63	61	64	68	66	72	80	66	64	73	72	77	72	67	63	58	.....	65.9
Pittsburgh.....	Maximum	88	86	89	90	88	85	81	67	69	76	68	72	74	80	76	79	86	90	90	91	92	92	92	90	88	83	74	68	66	74	.....	81.5
	Minimum	63	66	68	70	71	67	66	54	50	51	60	56	59	56	61	56	54	58	66	70	68	73	70	66	66	68	62	56	53	45	.....	61.7
Reading.....	Maximum	82	94	91	92	92	87	87	74	73	79	69	79	67	86	83	79	84	92	93	101	99	92	89	98	95	92	79	76	73	75	.....	85.1
	Minimum	54	67	68	67	73	72	69	60	57	57	59	58	59	56	63	58	58	61	67	73	74	72	66	71	72	76	69	67	60	52	.....	64.5
Scranton.....	Maximum	83	86	86	88	91	85	80	68	66	74	76	78	75	82	68	74	84	90	94	95	91	92	92	94	94	89	80	74	69	75	.....	82.4
	Minimum	50	57	58	62	63	66	63	57	51	50	48	51	58	51	53	44	51	56	62	67	68	65	67	69	69	67	63	58	54	44	.....	53.1
Somerset.....	Maximum	86	85	90	92	90	82	76	75	84	75	73	68	72	76	78	70	85	93	94	92	90	92	91	90	88	88	87	78	63	69	.....	82.4
	Minimum	50	57	56	60	60	65	60	46	44	42	53	45	55	56	60	58	46	51	52	60	52	60	62	61	50	58	55	56	48	37	.....	53.8
State College.....	Maximum	86	78	88	79	78	79	81	74	71	71	68	72	70	76	73	74	85	78	94	94	92	92	92	82	89	85	72	61	67	73	.....	79.1
	Minimum	53	61	59	60	66	61	54	47	49	57	50	50	49	55	48	48	54	62	67	67	65	66	66	63	62	56	51	51	44	.....	56.8	
Towanda.....	Maximum	85	87	87	88	90	84	74	69	67	72	75	73	76	79	68	74	82	89	93	93	89	88	90	94	92	89	78	73	67	73	.....	83.5
	Minimum	44	50	53	59	59	66	63	55	50	48	44	49	45	50	52	42	46	51	60	61	62	61	61	67	69	63	61	54	53	41	.....	56.4
Uniontown.....	Maximum	85	87	89	91	89	85	82	79	71	74	72	70	71	79	78	79	83	89	91	90	89	91	90	88	86	84	77	72	68	67	.....	81.6
	Minimum	58	62	61	63	68	67	67	56	46	45	57	54	60	52	61	59	55	58	61	66	65	71	69	69	64	72	59	63	55	45	.....	60.3
Warren.....	Maximum	89	88	88	90	90	82	82	68	70	78	76	78	81	82	76	80	88	90	91	92	95	94	95	97	95	87	74	68	69	75	.....	83.6
	Minimum	45	50	54	56	60	66	65	50	48	43	46	50	40	55	43	43	50	55	61	58	65	63	61	62	65	53	51	51	40	.....	53.1	
Wellsboro.....	Maximum	88	87	87	85	90	83	80	74	68	74	68	74	68	71	75	80	69	79	84	90	92	91	90	89	92	93	87	75	67	69	.....	81.3
	Minimum	40	47	40	56	55	65	63	50	48	41	41	43	38	44	52	37	40	46	52	57	54	57	57	52	66	62	51	49	50	35	.....	49.6
Williamsport.....	Maximum	84	95	95	95	97	92	85	82	75	80	80	80	80	76	86	83	83	89	94	95	101	97	96	94	100	100	95	82	76	74	80	88.0
	Minimum	49	55	60	64	63	68	67	58	55	50	51	53	51	50	59	47	50	55	61	65	64	66	69	70	67	70	63	55	46	.....	58.5	

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXVIII.

JULY, 1923.

No. 7.

GENERAL SUMMARY.

Drought conditions, which had become serious in a good many places before the end of June, became further intensified and more extensive during July, especially east of the Susquehanna River and throughout the northern tier counties. In other sections relief was afforded by the rains of the 4th, 11th and other dates. Wheat and fruit crops were but slightly affected by the drought, but pastures, meadows, oats, and all kinds of truck crops were badly cut down. Corn and potatoes were considerably injured.

TEMPERATURE.

The average temperature for the State, as determined from records of 81 stations, was 71.0° or 1.0° below normal. The highest mean temperature was 75.2° at Philadelphia, and the lowest was 61.5° at West Bingham. The extremes for the State were 100° at Gettysburg on the 20th and 21st, and 32° at West Bingham on the 23d.

PRECIPITATION.

The average rainfall for the State, as determined from records of 129 stations, was 4.24 inches, or 0.09 inch less than normal. Over a very large part of the State the bulk of the rainfall came within the last four to seven days. Totals for the month ranged from less than 1.00 inch at several stations near the northern border to more than 8.00 inches at several others in the central and southwestern sections. The extremes were 9.86 inches at Vandergrift and 0.92 inch at Ansonia. The greatest 24-hour rainfall was 7.35 inches at Gouldsboro on the 27-28th.

Damaging hail was reported near Cresson on the 3d, near Shippensburg on the 14th, and in northern Bucks County on the 22d. No reports of destructive winds were received.

VIOLENT LOCAL STORMS AND FLOODS.

Not in many years have there been so many instances of serious summer floods. Most of them occurred on the 29th or 30th, following rainfalls of three to seven inches of rain within 24 hours. The following notes indicate the chief features of some of the more important cases reported.

Bloomsburg, July 29.—Railroads and highways in this section were badly damaged by washouts and landslides. Large quantities of oats in sheaf were washed from the fields. Within 34 hours 6.15 inches of rain fell at Catawissa on the opposite side of the river. At Benton in the northern part of Columbia County, West Creek rose 15 feet within an hour. Loss of life was averted through telephone warnings from upstream, but persons had to flee from their houses at 4 A. M.

Chambersburg, July 30.—Exactly four inches of rain fell within 65 minutes. Water rose above the first floor of many houses and some places of business were closed on account of high water.

Dillsburg, July 30.—The creek rose with startling rapidity, flooding a campsite where persons had difficulty in making their escape. They lost much of their camp equipment, also some automobiles.

Muncy, July 29.—Muncy Creek near Muncy was the highest known since 1889. One man was drowned, and there were heavy losses in crops and farm property.

G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.				
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	292.9	461.4	63	66	59	7,368	9.9	37	se.	30
Harrisburg.....	270.9	455.2	60	70	59	3,948	5.3	24	ne.	16
Philadelphia.....	268.7	455.2	59	70	62	6,446	8.7	25	sw.	24
Pittsburgh.....	296.5	458.3	65	75	62	5,841	7.9	53	nw.	6
Reading.....	242.0	455.0	53	73	62	3,621	4.9	19	se.	30
Scranton.....				77	56	3,972	5.3	23	nw.	25

* For any five-minute period.

COMPARATIVE DATA FOR JULY.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	69.2	97	38	3.45	7.10	1.40			
1889.....	71.6	96	39	6.80	15.02	1.04			
1890.....	70.7	101	33	3.52	6.40	0.70	13	11	7
1891.....	67.8	97	34	6.32	11.61	2.63	11	10	10
1892.....	73.1	103	38	3.93	8.59	2.15	15	11	5
1893.....	72.1	102	36	3.15	6.27	1.58	15	12	4
1894.....	73.8	103	31	2.32	5.96	0.53	15	11	5
1895.....	69.1	102	34	3.24	6.18	1.16	12	12	7
1896.....	72.8	98	40	6.89	15.59	3.04	10	11	10
1897.....	73.4	103	41	6.26	14.51	2.10	10	11	10
1898.....	74.8	107	33	3.36	6.29	1.15	12	12	7
1899.....	72.3	101	35	3.91	8.24	1.53	12	11	8
1900.....	74.0	104	35	4.86	8.26	1.81	14	12	5
1901.....	76.4	107	45	3.88	7.34	1.52	10	13	8
1902.....	71.8	99	41	6.04	12.35	2.11	10	12	9
1903.....	71.2	98	35	5.36	8.81	1.76	13	12	6
1904.....	70.6	99	34	4.68	9.19	1.92	12	11	8
1905.....	72.6	99	39	4.87	9.78	2.49	10	12	9
1906.....	71.3	95	38	4.31	8.98	1.41	12	13	6
1907.....	71.5	96	34	3.84	9.46	1.01	15	12	4
1908.....	73.9	104	39	4.81	9.57	2.15	14	12	5
1909.....	69.7	98	34	2.14	4.50	0.75	16	11	4
1910.....	72.8	99	41	2.42	5.15	0.45	16	11	4
1911.....	73.7	105	36	2.81	7.41	0.90	16	11	4
1912.....	71.3	100	36	5.29	12.65	1.04	12	11	8
1913.....	71.8	101	40	4.16	8.00	0.82	15	10	6
1914.....	71.3	101	38	4.19	10.29	1.10	12	11	8
1915.....	70.7	98	40	5.28	12.30	1.82	10	13	8
1916.....	74.3	98	41	4.45	12.41	0.39	14	10	7
1917.....	72.1	105	40	4.33	9.76	1.90	12	12	7
1918.....	70.1	99	35	3.05	9.96	0.77	16	10	5
1919.....	72.6	104	34	5.90	14.58	1.70	16	8	7
1920.....	69.5	96	33	4.37	10.70	1.27	15	10	6
1921.....	75.9	104	45	4.13	9.19	1.23	19	9	3
1922.....	71.9	98	38	3.68	7.58	1.45	14	10	7
1923.....	71.0	100	32	4.24	9.86	0.92	15	9	7

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	1.7	2.9	29	1.2	24	18
Phillipsburg.....	Delaware.....	0.6	3.2	28	0.0	18	22
Mauch Chunk.....	Lehigh.....	3.6	6.9	28	3.4	4	12
Wilkes-Barre.....	Susquehanna.....	2.2	2.6	29	1.9	27	20
Williamsport.....	Susquehanna.....	0.5	2.1	29	0.0	24	20
Harrisburg.....	Susquehanna.....	3.4	5.6	30	3.1	23	17
Freeport.....	Allegheny.....	1.7	3.6	29	0.9	25	22
West Newton.....	Youghiogheny.....	1.0	3.7	12	0.3	23	20
Lock No. 4.....	Monongahela.....	13.7	16.9	1	12.6	25	31
Pittsburgh.....	Ohio.....	7.7	9.3	1	6.8	27	22
Beaver Dam.....	Ohio.....	8.3	9.4	2	7.4	11	30

Climatological Data for July, 1923.																				
Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	11	73.8	.....	98	20	65	26	33	2.46	-2.59	1.23	0	8	6	20	5	w.	John A. Frick.
Altoona.....	Blair.....	1,615	36	68.9	-2.2	89	20†	45	23	34	6.30	+3.03	1.38	0	15	16	10	5	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	295	39	.....	.....	.....	.....	60 ^b	1	.....	3.15	-1.41	.....	0	.....	.....	.....	.....	.....	E. E. McCollm.
Biglerville.....	Adams.....	125	4	73.8 ^a	.....	98 ^a	20†	46 ^a	1	40 ^b	2.70	.....	1.17	0	8	16	8	7	w.	R. C. Walton.
Bustleton.....	Philadelphia.....	467	56	73.4	-1.4	96	20	49	1	35	3.66	.....	1.19	0	10	12	10	9	s.	Experiment Station
Carlisle.....	Cumberland.....	520	26	72.2	-0.5	99	20	44	23	47	7.28	+3.51	5.55	0	11	17	6	8	se.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	1,272	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	13	17	8	6	.....	H. H. Yetter.
Center Hall.....	Center.....	580	23	72.6	-2.1	96	20†	46	1	42	7.78	+4.50	5.12	0	11	15	7	9	ne.	S. W. Smith.
Chambersburg.....	Franklin.....	1,120	13	71.6	+0.1	98	20	39	2†	46	4.68	+0.68	2.16	0	13	16	10	5	sw.	William B. Spear.
Clearfield.....	Clearfield.....	380	35	73.2	-1.5	97	21	48	1	39	1.58	-3.44	0.41	0	12	10	16	5	se.	E. W. Hess.
Coatesville.....	Chester.....	560	13	72.4	.....	93	20†	47	1	38	4.77	+0.73	2.71	0	14	17	6	8	s.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	1,050	35	67.2	-3.0	89	20	40	23	39	3.04	-1.40	0.84	0	9	19	6	6	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	380	22	74.5	+0.5	97	21	49	1	35	2.09	-2.45	0.55	0	9	13	11	7	n.	T. B. Lloyd.
Ephrata.....	Lancaster.....	1,040	25	69.6	-2.1	89	21	43	2	35	4.53	+0.57	0.90	0	9	15	9	7	n.	E. K. Hershey.
Everett.....	Bedford.....	1,970	8	66.2	.....	91	21	44	23†	35	7.93	.....	4.00	0	13	12	11	8	sw.	J. E. Thropp Co.
Freeland.....	Luzerne.....	190	16	71.8	-1.8	96	21	48	1	40	5.13	+0.75	1.84	0	13	20	4	7	s.	Theo. Reichmann.
George School.....	Bucks.....	600	49	74.2	+0.2	100	20†	46	1	45	7.21	+3.59	5.50	0	9	14	9	8	w.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	840	19	69.4	-0.8	93	20	42	1	45	3.92	-1.32	0.95	0	7	15	9	7	w.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	535	30	73.0	-0.9	96	21	46	1	37	2.40	-2.31	0.97	0	8	20	7	4	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	600	19	74.2	-1.2	97	20	50	1	35	4.99	+0.52	2.67	0	12	17	9	5	s.	State Sanatorium.
Hanover.....	York.....	361	53	74.2	-0.3	94	21	54	1	30	3.33	-0.54	1.47	0	9	7	13	11	nw.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	900	4	69.6	.....	96	20†	42	1	48	4.53	.....	3.50	0	9	.....	.....	.....	.....	U. S. Weather Bureau.
Hawley.....	Wayne.....	650	35	71.0	-1.2	93	20	44	23	38	7.15	+3.36	2.15	0	17	18	4	9	w.	J. S. Pennell.
Huntingdon.....	Huntingdon.....	570	3	72.5	.....	96	15†	46	23	44	5.46	.....	2.39	0	13	24	4	3	.....	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	340	51	74.6	+2.7	98	21	49	1	40	4.47	-0.54	2.00	0	8	18	8	5	s.	Col. E. B. Cope.
Kennett Square.....	Chester.....	255	35	73.8	+0.4	99	21	45	1	42	2.94	-0.98	0.90	0	11	22	5	4	w.	Capt. J. G. Johnson.
Lancaster.....	Lancaster.....	1,000	25	69.4	-0.8	95	20	40	23	45	2.50	-1.80	1.25	0	7	19	7	5	.....	State Sanatorium.
Lawrenceville.....	Tioga.....	469	82	73.8	+0.2	95	21	49	1	35	6.21	+1.94	3.28	0	12	12	10	9	sw.	Mrs. Mabel C. Wolcott.
Lebanon.....	Lebanon.....	469	82	73.8	+0.2	95	21	49	1	35	6.21	+1.94	3.28	0	12	12	10	9	sw.	S. B. Benzing.
Lewisburg.....	Union.....	450	48	73.4	+1.9	99	20	46	1†	44	8.06	+4.09	5.35	0	10	16	7	8	w.	U. S. Weather Bureau.
Lock Haven.....	Clinton.....	616	34	71.6	-1.7	94	14†	47	23	40	4.94	+0.94	2.30	0	13	20	5	6	se.	Prof. W. G. Owens.
Lykens.....	Dauphin.....	680	8	71.6 ^a	.....	95	21	42 ^a	1†	50 ^a	4.44	.....	1.12	0	11	16	8	7	nw.	R. Scott Kift, C. E.
Marcus Hook.....	Delaware.....	50	3	75.4	.....	98	21	54	1	31	3.51	.....	1.06	0	10	5	22	4	.....	Sen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	33	71.7	-0.6	96	20	44	1	44	3.03	-2.07	1.00	0	12	22	2	7	w.	R. K. Wintermute.
Millintown.....	Juniata.....	445	19	74.0 ^a	+1.3	95 ^a	20†	50 ^a	1	36 ^a	7.75	+3.64	2.35	0	11	13	6	12	w.	Wellington Smith.
Montrose.....	Susquehanna.....	1,658	20	67.2	-1.0	92	20	42	6	32	2.27	-1.99	0.85	0	7	21	5	5	w.	Silas Jagger.
Muncy Valley.....	Sullivan.....	1,045	11	69.1	.....	97	20	44	1†	46	5.72	+0.75	2.35	0	7	15	11	5	w.	A. H. Boatman.
Narberth.....	Montgomery.....	300	4	73.0	.....	96	20	54	1	36	3.14	.....	0.94	0	13	9	8	14	ne.	Charles Decker.
Neshaminy Falls††	Bucks.....	60	34	71.5	.....	99	21	50	1	42	3.39	.....	1.32	0	13	15	3	13	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	6	72.8	.....	96	21	48	1	40	2.53	.....	1.03	0	9	17	10	4	ne.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	52	75.2	-1.0	99	21	62	3	26	3.51	-0.82	1.35	0	12	9	11	11	s.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	7	74.9	.....	98	21	59	1	30	3.91	.....	1.19	0	9	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	12	74.1	.....	99	20†	50	1	41	3.91	.....	1.05	0	12	18	11	2	s.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	38	70.0	-2.5	97	21	43	1	42	2.52	-2.30	0.60	0	12	9	12	10	nw.	John E. Benner.
Reading.....	Berks.....	325	53	74.4	-1.1	94	21	54	1	28	2.89	-1.33	1.19	0	14	5	18	8	se.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	28	70.8	-1.0	94	20	48	1	37	4.72	+0.89	3.04	0	12	10	10	11	n.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	33	71.8	-1.7	97	20	46	1†	43	3.57	-0.81	2.30	0	8	20	5	6	s.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	27	74.0	.....	94	20†	46	27	37	2.76	-1.83	0.98	0	9	16	10	5	nw.	W. S. Guiles.
State College.....	Center.....	1,217	38	68.2	-2.4	89	20	47	1	34	7.09	+3.31	2.05	0	14	12	10	9	ne.	C. A. Kern.
Towanda.....	Bradford.....	754	28	68.4	-2.2	93	20	42	23	43	2.45	-1.62	0.67	0	8	13	11	7	n.	Hiram E. Bull, C. E.
Wellsville.....	Tioga.....	1,419	67	64.8	-4.1	92	20	37	23	52	0.98	-3.02	0.64	0	3	25	2	4	sw.	George W. Hill.
West Chester.....	Chester.....	455	85	72.8	-1.5	96	21	53	1	34	2.36	-2.47	0.79	0	10	19	6	6	se.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	36	73.4	+0.3	98	22	49	1†	43	4.30	+0.34	2.06	0	13	22	3	6	nw.	Jacob April.
York.....	York.....	400	35	72.8	-1.6	95	20†	47	1	39	4.55	+0.06	1.51	0	9	17	10	4	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam††	Beaver.....	700	30	72.6	.....	96	10	50	1	37	3.37	-0.50	0.98	0	10	12	12	7	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	8	66.2	.....	91	19	35	23	49	4.85	.....	1.52	0	9	13	11	7	sw.	City Engineer.
Bradys Bend††	Armstrong.....	990	5	67.4	.....	92	20	38	23	48	4.83	.....	1.45	0	11	13	9	9	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	32	66.6	+0.1	91	19	38	23	45	3.03	-1.10	1.05	0	10	23	3	5	.....	John Fawcett.
Claysville.....	Washington.....	1,150	19	71.8	-0.9	94	10†	45	23	40	3.21	-1.11	1.01	0	10	19	4	8	n.	J. L. Melvin.
Corry.....	Erie.....	1,430	11	67.0	.....	90	20	42	1†	40	2.05	.....	1.16	0	10	14	13	4	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	26	67.9	-3.4	90	20	42	1	40	5.64	+0.81	1.44	0	10	15	11	5	sw.	Wm. A. Huff, Jr.
Ebensburg.....	Cambria.....	2,000	5	65.5	.....	86	19†	36	23	45	4.99	.....	1.67	0	10	18	8	5	sw.	D. H. Jones.

Daily Precipitation for July, 1923.

Stations	Drainage Basin.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh			.02	.17	.06						.56	T.			.19										1.23			.20		.03	2.46		
Altoona	Juniata	.01	.05	.80	.34	.66					.12	.47			.56		.13								.27		.62	1.38	.03	.60	.26	6.30		
Ansonia|||	W. Br. Susq.		.04	T.		.02					T.	.21	T.			.03										.05						.02	0.92	
Bethlehem	Lehigh					1.01						.63				.16									.05	1.03		.20			.07	3.15		
Biglerville	Susquehanna			T.		.20	.09					.48			.10										.30	.09		.27			1.17	2.70		
Bloersville	Lower Susq.			.16		.35	.16				.28	.26			.30										.75			.28		1.15	.22	3.91		
Bustleton	Lower Del.	.31	.04								.19	.15	1.02			.11								.27	T.	1.19		.38	.14		.01	3.66		
Carlisle	Lower Susq.	.30	T.		.69						.08	.15	.86		.04	T.	.18								.11	.65		.37	T.	2.07	T.	5.50		
Catawissa	N. Br. Susq.	T.	.28	.02		.11					.20	.08				.02	.10								.14			.82	4.73	.60	.01	.17	7.28	
Center Hall	Susquehanna																																	
Chambersburg	Potomac		.87	T.		.32						.17			.20		.01								.18	.14		.14	.32		5.12	.31	7.78	
Clearfield	W. Br. Susq.	.05		.48	.20	.10					.53	.12	.27			.12	.05								.08		.05	.21			.47	4.68		
Coatesville	Lower Del.	.04	T.		.17							.07	.16			.27								.01		.02	.37		.30	.11	.02	.04	1.58	
Colebrook	Lower Susq.	.03	.45	.01	.16						.01	.12	T.		T.	.57								.03		.12	.22		.26	.05	2.71	.03	4.77	
Cresskill|||	Juniata	.04	1.20	.12	.40	.10					1.26	.18			.12	.38											.65		.22	.25	.10	.70	7.50	
Doylstown	Lower Del.	.13	.90	.01	.03							.05	.71			.13									.24	.04	.48		.12	.03		.05	4.01	
Driftwood	W. Br. Susq.	.10	.15								.40	.68			.15	.25												.30	.50			T.	2.53	
Emporium	W. Br. Susq.	T.	.05	T.	.32						.33	.84	.07			T.									.10			.84		.39	.10		3.04	
Ephrata	Lower Susq.	T.		.11	.05						.07					.35								.08				.55	.10	.40			2.09	
Everett	Juniata	.10		.90	.70						.68	.85			.20													T.	.50		T.	.50	4.53	
Forest City	N. Br. Susq.		.22	.17		.11						.11			.03											.41			2.49	.39			4.48	
Freeland|||	Lehigh		.12	.14	.18	.06	.08				.06	1.22	T.			.08	.10									.25		4.00	1.18			.46	7.93	
George School	Lower Del.		.32	1.84	.22	.06	T.					.10	.39			.10									T.	.16	.05	T.	1.20			.48	5.13	
Gettysburg	Potomac			.19	.40							T.	.14													.26	.13		.33	.06	5.50	.20	7.21	
Girardville	Susquehanna	.02	.29			.20					.48	.05			.02	T.	.08									.48		.43	.84	.12	.16	.10	3.25	
Gordon	Lower Susq.		.48			T.					.95	T.		T.	T.	.23									.18	.80		.90		.38			3.92	
Gouldsboro|||	Lehigh	.42	.24	.06								.18				.12										.18			.75	.20		.22	8.77	
Graterford	Schuylkill	.02	.29		.01						.34	.53	.32			.63							.55		.37	.41		.97			T.	4.15		
Hamburg	Schuylkill	.21	.29								.07					.18										.21	.97		.33	.14			2.40	
Hanover	Lower Susq.		.10		.20	.05					.12	.30				.04									.08	.06			.47	.65	2.67	.22	4.99	
Harrisburg**	do	.26	T.	.10	.25						T.	.59			T.	.05	.33								.36			T.	.12	T.	1.47	T.	3.33	
Hawley|||	Upper Del.	.26	.18			.04						.05														.22			3.50	.16	.02	.15	4.53	
Holtwood|||	Lower Susq.				T.	.27	.07					.05														.72	.98			1.12	.02		3.45	
Huntingdon	Juniata	.09	.02	2.15	.34	.26					.02	.13	.09		.31	.49	.42									.57		.07	1.73	.20	.04	.22	7.15	
Jersey Shore	W. Br. Susq.	T.	.02	.48		.28					T.	.90	.02		.04	.01	.10									.16	.02		2.39	.99	T.	.05	5.46	
Kennett Square	Delaware					.63						.04				.40										.02	.86		.27	.25	2.00		4.47	
Lancaster	Lower Susq.				.40						.28	.05	.13			.16									.04	.40		.90	.13	.41	.04		2.94	
Lansford|||	Lehigh	.28		.23		.01					.10					.07									.10		.92		.22		.05	.32	2.30	
Lawrenceville	N. Br. Susq.	.05	1.25		.20						.10					.10													.70	T.	.10		2.50	
Lebanon	Lower Susq.	.07	.68		.14	.03				.04		.03				.30	.77									T.	.39		.32	.16	3.28		6.21	
Lewisburg	W. Br. Susq.	.01	.37		.07						T.	1.08			T.	.08										.26	.04		5.35	.78	T.	.02	8.06	
Lloyd	W. Br. Susq.		.08								.65															.08			.85				1.66	
Lock Haven	W. Br. Susq.	.01	.71		.12						.03	.48	.06			.01	.21									.30		.01	2.30	.65		.05	4.94	
Lykens	Susquehanna	T.	.41		.32						T.	.11		.09		T.	.71	.03							.22								4.44	
Marcus Hook	Lower Del.	.31	T.	.36	T.						.17					.37									.22						1.06	.50	T.	3.51
Mauch Chunk	Lehigh	.26	.22		.05						.84				.03	.10										.20	.80		.34	.03	.02	.14	3.03	
Millintown	Juniata		.65		1.19						.03	1.67	.24			.18	.61									.42	.41		.10	2.25			7.75	
Montrose	N. Br. Susq.	.20	.12		.08						.04					T.	.18									.18			.85			.80	2.27	
Mount Union|||	Juniata	.08		.52	.78						.15	.13			.99		.41	.53								.25			1.55		.27		5.66	
Muncy Valley	W. Br. Susq.		1.02		.21						.23															.29			2.35	1.25		.37	5.72	
Narberth	Lower Del.	.28	.01		.80	.01					.26	.33				T.	.01									.03	.42		.78	.16	.02	.03	3.14	
Neshaminy|||	Lower Del.	.30	.03	.05		.03					.46	.25	.20	.03			.21	.02								T.	.38	T.	1.32		.55	.02	3.39	
Palmerton	Lehigh	.17	.26								.46	T.				.06								.01	.01		1.03		T.	.50	.03	T.	2.53	
Philadelphia (a)	Lower Del.	.29	T.	.10	.39						.20	1.33	.02			.11										.02		T.	.48		.46	.08	.03	3.51
Philadelphia (d)|||	do	.25			.10																													

Daily Precipitation for July, 1923. - Continued from page 27.

Stations.	Drainage Basin.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Freeport||	Allegheny.....				.13		.10	.52				.23	.58			T.	.61								.20	T.			1.81	.05			4.23		
Greensburg.....	Youghiogheny.....		T.		.04	.23						.18	.35			T.	.60						T.			.23	.32		.20	.92	T.	.46		3.53	
Greenville.....	Beaver.....			.10		.59	.16					.64				*	.53								.12				.33			.02	.43	2.90	
Grove City.....	Beaver.....				.84	.78	.44					.33	.78			.61	.02								.32				.94	.02		.08	6.38		
Herrs Isl. Dam|||	Ohio.....		T.		.24	.25	T.	.37				1.32	.14				.47						T.		.17	.17			2.40	.85		T.	5.18		
Indiana.....	Conemaugh.....				.03		.33	.01				.32	.04				.07	.58							.10	.14		.20		.07	.10		1.99		
Ingram.....	Ohio.....		.01	.04	.14	.24	.91					.95	.16	.30			.03	.65					T.		.35			.21	2.28	.06	.01	.01	6.35		
Irwin.....	Youghiogheny.....				.07	.29						.50	.21				.16						T.		.35			.93	.76	.36	.12		3.75		
Johnstown.....	Conemaugh.....		.01		.25	.35	.71	.19				.62	.25	.23		.01	.01	.32							.91	T.			.35	1.41		.63	.01	6.26	
Ketner.....	Allegheny.....				.10		.23					.35	.70												.11				1.12				2.61		
Linesville||	Beaver.....				.12		.59					.11					.59								.23				.28			.09	2.01		
Lock No. 4|||	Monongahela.....					.28	.31					.48	.08				.44								.03	.03		1.32				.04	2.96		
Lycippus.....	Conemaugh.....				.10							.58	.12				T.	.60									1.08		1.12	.24	1.23		5.67		
New Castle|||	Beaver.....			.30		.62	.30					.32	.66				.51								.34				1.60		.11		4.76		
Newell.....	Monongahela.....				.84	.88						.21		.29			.25	.15							.02	.08			.24	1.46		.27		4.69	
North Shenango.....	Beaver.....			.27		.35						.31	.23				.53								.25				.35			.09	2.38		
Parkers Landing|||	Allegheny.....			.22			.60	.16				.70	.10				.10	.20							T.	.10			1.00				3.28		
Pennline|||	Beaver.....		.08		.15		.67	.04				.27	.10				.38	.10							.18				.30			.29	2.46		
Pittsburgh***	Ohio.....		T.		.25	.31	T.	.49				1.39	.20				.56	.02						T.		.01	.21			.51	2.73		T.	.06	6.74
Ridgway.....	Allegheny.....																																		
Saltsburg|||	Conemaugh.....			.02		.27						.90	.34				.41									.06	.74			1.20	.88		.42	5.23	
Saegertown.....	Allegheny.....			.07	.17	.17						.16	.52	.02			.27								.17				.44			1.70	3.69		
Sharon|||	Beaver.....			.65	T.	.28						.11				T.	.37	T.							.22	T.			.52		.82		3.97		
Somerset.....	Youghiogheny.....					.62			2.33	T.							.22							.30		.41	.16		.03	1.62		1.10		6.70	
Springdale|||	Allegheny.....				.60	.65						.98	.22				.44								.25	.81			2.85	.08			6.88		
Stoyestown.....	Conemaugh.....			.03	.75	.15					.14	2.57	.26	.02			.02	.27							.01	.42			.06	1.22	.21	.85	.21	7.19	
Summit|||	Beaver.....			.18		.88						.32					.35									.25			.35				2.33		
Tionesta.....	Allegheny.....			.22		.24						.40					.20												.79				1.85		
Turnerville|||	Beaver.....			.10		.40						.70																	.50			.25	2.25		
Uniontown.....	Monongahela.....				.80	.09						.40	T.				.38							.10		.03	.01		T.	1.88		.75	4.44		
Unity Reservoir||	Youghiogheny.....				.05	.20						.27	.29				.87									.32	.21		.16	1.15	.17	.42		4.11	
Vandergrift.....	Conemaugh.....			.80		.11	.30					.11	.38	.26			.90	1.86								.25	.75			3.44	.52	.18	9.86		
Warren.....	Allegheny.....			.35		.25						.18	.32				.11												.35			1.53	3.11		
Washington.....	Ohio.....			.42	.27						.56	.03	.35				.43	.01					.02		T.	.04			.89	.63	T.	T.	3.65		
Waynesburg|||	Monongahela.....			T.		.22	.44					.30	.10	.20			2.55												2.60	.10		.12	6.03		
Westford|||	Beaver.....			.19		.26	T.					.32	T.				.68	.03							.15				.30			.26	2.19		
West Newton|||	Youghiogheny.....					.27	.06	T.				.44	.14	.05			.51	T.						T.		.13	.39			1.14	.15		.22	3.50	
Lake Drainage.																																			
Erie***	Lake Erie.....		.01	.01		.09	.13				.10	.09					.01									T.	.04	T.		.12	.32		.01	T.	0.93
West Bingham.....	Genesee.....			.22	1.27		.08				T.						T.	.09								.03	.02		.03	.44		.08	.20	2.46	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch.

§ Incomplete or missing.

|| Post Office address:—Greensburg

Daily Temperatures for July, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Allentown.....	Maximum ...	84	85	79	86	90	88	86	84	88	91	86	89	89	89	88	85	88	91	91	98	97	90	81	68	82	81	83	76	88	71	67	85.1
	Minimum ...	57	62	62	61	68	57	58	58	68	71	69	67	62	69	67	61	58	59	59	66	66	57	61	59	58	55	63	67	68	62	60	62.4
Altoona.....	Maximum ...	77	70	79	80	84	80	81	85	88	88	79	82	84	83	79	82	81	83	87	89	89	86	77	70	77	79	81	75	85	75	66	80.4
	Minimum ...	49	55	50	57	57	63	59	51	51	65	66	64	54	56	60	63	52	53	55	58	65	60	45	56	61	48	52	65	66	60	62	57.4
Catawissa.....	Maximum ...	84	84	84	86	91	85	87	88	90	92	90	92	94	96	80	86	92	96	98	99	97	94	88	70	87	89	85	79	88	73	73	87.6
	Minimum ...	47	55	60	59	57	58	55	49	50	69	68	65	55	56	64	65	56	52	54	52	56	58	44	55	59	49	48	54	64	67	62	56.8
Chambersburg.....	Maximum ...	81	74	86	84	90	87	85	83	88	91	86	86	88	89	84	88	86	87	90	96	96	91	87	78	84	83	87	78	87	81	69	85.5
	Minimum ...	46	54	55	63	61	66	64	56	55	66	68	63	60	63	68	60	54	54	54	59	63	47	56	62	55	52	69	65	65	64	59.8	
Emporium.....	Maximum ...	78	79	81	82	83	79	80	80	85	85	79	80	82	85	75	81	81	85	88	88	79	78	65	76	78	83	75	82	78	69	80.3	
	Minimum ...	47	50	55	55	52	63	55	44	48	62	69	58	50	52	57	63	49	48	50	50	50	53	40	54	60	44	47	65	66	60	65	54.2
Erie.....	Maximum ...	75	81	77	78	72	74	76	75	82	81	75	79	79	85	78	80	81	86	88	83	75	73	75	73	76	78	74	75	82	83	78.6	
	Minimum ...	56	63	62	63	61	67	62	60	62	69	69	64	65	61	65	68	60	62	64	66	74	63	56	59	63	55	61	61	65	62	68	63.1
Grove City.....	Maximum ...	79	80	84	80	83	80	79	78	85	88	79	81	85	87	82	80	80	83	88	90	88	83	78	73	81	76	87	84	82	87	77	82.2
	Minimum ...	45	50	55	54	60	62	61	56	54	62	65	63	58	53	60	62	53	55	56	58	56	60	46	56	60	47	50	60	63	58	64	56.8
Harrisburg.....	Maximum ...	80	77	80	84	90	85	84	83	87	88	85	86	89	84	84	85	85	88	90	93	94	88	80	67	82	80	82	76	88	75	69	83.5
	Minimum ...	54	62	62	64	62	68	66	62	66	70	71	70	66	64	71	69	68	61	63	63	72	73	61	63	63	61	59	70	64	63	64	65.4
Holtwood.....	Maximum ...	81	79	77	81	88	82	82	82	88	82	86	84	81	82	82	84	88	86	93	90	88	77	66	81	79	81	79	84	75	68	81	69.9
	Minimum ...	54	61	64	64	63	68	66	61	64	70	72	72	70	70	71	68	68	63	63	63	72	73	61	63	63	61	59	70	64	63	64	65.4
Indiana.....	Maximum ...	84	79	83	85	84	85	84	84	85	91	85	85	88	97	91	85	85	87	92	92	92	91	90	73	80	83	85	83	90	88	87	86.2
	Minimum ...	49	60	58	58	56	57	63	55	55	62	65	67	58	58	62	62	62	57	55	53	57	54	47	58	59	49	53	65	54	56	62	57.7
Mifflintown.....	Maximum ...	84	78	83	83	93	84	86	87	91	93	87	90	91	89	79	57	88	89	92	95	95	91	84	77	88	85	83	76	89	82	....	86.5
	Minimum ...	50	57	60	62	61	67	64	57	55	70	71	66	58	59	65	67	59	57	59	59	62	68	52	60	63	56	54	69	69	68	....	61.5
Philadelphia.....	Maximum ...	81	79	70	84	92	86	79	79	82	87	86	83	85	84	85	87	86	87	87	96	99	91	81	72	83	82	83	82	86	73	67	83.3
	Minimum ...	62	65	62	64	66	70	67	64	64	68	70	70	67	66	70	70	70	70	70	70	70	63	70	63	70	63	66	68	70	67	62	67.0
Pittsburgh.....	Maximum ...	79	74	78	84	86	81	83	84	87	91	83	84	85	86	77	83	93	85	89	90	90	83	77	74	76	78	84	78	84	85	80	82.6
	Minimum ...	56	63	61	64	64	63	66	62	62	69	71	69	66	63	67	66	61	64	61	60	70	66	57	61	62	57	61	67	69	67	63.9	
Reading.....	Maximum ...	81	81	78	86	90	86	85	85	86	91	86	87	86	88	84	85	85	90	87	94	94	88	76	66	80	80	80	76	84	75	66	83.4
	Minimum ...	54	61	62	66	63	70	65	64	63	70	71	71	68	64	71	68	66	62	62	67	72	67	60	61	60	63	71	70	66	63	65.3	
Seranton.....	Maximum ...	83	82	79	79	85	75	81	80	86	89	85	88	88	79	83	83	90	92	94	91	82	78	70	77	79	81	75	80	73	71	82.1	
	Minimum ...	48	57	59	60	59	62	55	53	54	69	68	63	58	60	68	67	61	56	58	57	64	61	50	59	60	55	53	62	66	64	61	59.6
Somerset.....	Maximum ...	74	67	80	82	85	78	80	82	83	86	80	78	83	83	80	82	78	81	86	85	84	84	75	73	74	75	83	80	80	82	75	79.9
	Minimum ...	43	50	53	40	65	40	45	55	50	62	61	64	55	55	54	66	62	65	50	50	58	60	45	51	56	47	54	56	50	58	61	54.2
State College.....	Maximum ...	76	73	78	81	80	78	80	78	83	88	75	80	84	77	76	81	82	85	88	89	86	83	76	63	74	78	79	74	84	75	67	79.3
	Minimum ...	47	54	52	55	55	61	58	53	50	67	65	59	54	54	61	55	52	54	55	64	63	48	59	59	51	54	61	64	61	61	61	57.0
Towanda.....	Maximum ...	80	82	82	82	84	74	78	79	86	85	81	83	85	90	76	81	83	89	90	93	92	79	76	75	75	78	84	73	79	77	72	81.4
	Minimum ...	45	51	60	57	63	64	53	48	45	63	67	65	51	54	64	66	54	49	51	50	58	63	42	48	48	50	49	63	65	60	62	55.4
Uniontown.....	Maximum ...	76	72	82	84	85	81	77	82	84	88	85	81	83	84	84	80	82	83	84	87	89	84	76	76	78	75	86	77	78	85	79	82.5
	Minimum ...	49	64	56	63	62	65	65	63	60	68	68	67	67	61	63	66	61	60	56	57	67	64	49	62	63	53	65	67	69	63	70	62.4
Warren.....	Maximum ...	80	81	83	84	85	81	85	83	88	88	81	86	87	89	75	85	87	89	91	92	91	83	80	71	79	85	87	75	87	89	76	84.0
	Minimum ...	45	53	52	55	50	62	55	45	50	60	66	58	51	50	60	56	50	51	50	51	50	53	41	59	59	45	49	60	65	59	61	53.9
Wellsboro.....	Maximum ...	77	78	81	83	83	73	78	78	90	84	81	81	85	89	74	80	80	88	83	92	90	82	78	70	73	79	78	73	79	73	68	80.5
	Minimum ...	40	46	47	54	48	44	48	38	38	50	64	48	45	50	60	58	43	44	45	47	53	52	37	45	55	39	45	62	63	56	40.2	
Williamsport.....	Maximum ...	84	84	82	96	89	85	84	95	92	88	85	87	90	91	80	85	86	93	95	96	96	98	85	80	82	86	80	85	85	85	82	89.2
	Minimum ...	49	57	60	63	60	66	58	52	51	67	70	64	58	59	65	66	58	56	58	58	60	64	49	58	60	53	52	64	66	67	64	59.7

SEP 24 1923

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXVIII.

AUGUST, 1923.

No. 8.

GENERAL SUMMARY.

The average rainfall for the State was a little more than two-thirds of the August normal, but such a statement conveys little idea of the resulting conditions. In June there was a serious drought in rather more than one-half of the State, and in July and August a shortage of rainfall persisted over a large part of the same territory. No long dry period occurred in August, for light, local rains were comparatively frequent in most parts of the State. It was the continued deficiency in certain sections that caused a large number of complaints of drought conditions. Heavy local rains covered narrow paths in some of the dry counties, but did little to relieve general conditions. Thus about one-third of the State suffered more or less from a shortage of moisture, being confined chiefly to the southeastern and northwestern counties. The individual counties that seemed to suffer most were Erie and Lancaster. In Erie County the rainfall for the three months was less than four inches, or less than one-third of the normal, while Lancaster County received about one-half of its normal rainfall for that period. Pastures, meadows, and potatoes suffered most in the dry sections, but oats were very short, while corn developed many small ears. Some of the southwestern counties had an excess of rainfall for the summer season, and in those districts the condition of most crops was excellent. The central counties were deficient in rainfall for June and August, but heavy rains in July soaked the soil so thoroughly that there were few complaints during August. The month was comparatively free from severe or damaging local storms as compared with July, when a large number occurred.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 79 stations, was 69.2°, or 0.8° below the August normal. The highest monthly mean was 73.8° at Philadelphia and Marcus Hook, and the lowest mean was 62.0° at Mount Pocono. The highest temperature, 96°, was recorded at Clearfield, Lewisburg, and Greenville on the 7th, while the lowest was 30° at Clearfield on the 25th. It will be noted in this instance that Clearfield recorded both extremes.

PRECIPITATION.

The average rainfall for 137 stations was 3.10 inches, or 1.41 inches less than the August normal. The greatest monthly total was 7.30 inches at Phoenixville, and the least was 0.59 inch at Indiana. The greatest 24-hour rainfall was 4.10 inches at Narberth, immediately west of Philadelphia, on the 5th. This storm was the most severe that was reported during the month. The rate of rainfall was so great for a short time that the sewers could not carry it. Gardens were flooded, while water poured into many cellars and basements, and backed up to a depth of two feet or more in some of the streets. During this storm there

was a rainfall of 1.95 inches in one hour, from 12:30 p. m. to 1:30 p. m.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.				
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	247.5	428.7	58	69	60	8,372	11.3	52	sw.	21
Harrisburg.....	265.3	425.1	62	76	65	3,710	5.0	26	sw.	28
Philadelphia.....	254.2	425.1	60	73	67	6,269	8.4	29	n.	22
Pittsburgh.....	277.1	426.9	65	80	64	5,479	7.4	42	nw.	27
Reading.....	264.0	425.0	62	78	73	3,447	4.6	25	n.	22
Scranton.....				81	70	4,056	5.5	28	s.	21

* For any five-minute period.

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	69.8	100	33	7.05	11.27	3.18			
1889.....	67.4	100	37	3.24	7.07	0.83			
1890.....	68.8	98	34	5.76	9.65	2.58	9	14	8
1891.....	69.6	99	35	5.09	11.77	1.43	8	12	11
1892.....	71.4	99	42	3.77	7.64	1.07	14	7	10
1893.....	70.4	99	30	4.50	9.99	1.68	14	10	7
1894.....	69.4	98	32	1.84	5.51	0.17	13	12	6
1895.....	72.3	101	32	3.23	6.03	0.59	15	11	5
1896.....	71.2	101	35	2.22	6.53	0.45	14	11	6
1897.....	67.9	97	34	3.17	8.60	0.34	14	11	6
1898.....	72.3	99	37	6.60	11.32	3.72	11	11	9
1899.....	71.2	101	38	4.01	10.09	0.07	14	10	7
1900.....	75.0	103	38	3.33	5.78	0.84	14	12	5
1901.....	72.0	99	42	6.81	13.65	2.48	10	12	9
1902.....	67.8	100	34	2.62	6.44	0.51	13	13	5
1903.....	67.2	99	36	5.29	8.05	2.00	9	12	10
1904.....	68.0	96	34	4.36	9.64	1.66	15	10	6
1905.....	69.6	95	36	5.71	10.83	1.92	12	12	7
1906.....	73.2	96	39	5.62	11.65	1.62	10	12	9
1907.....	68.0	97	32	2.94	6.19	0.77	16	9	9
1908.....	69.4	102	30	3.22	8.06	1.22	15	10	6
1909.....	69.4	100	34	2.31	7.76	0.12	16	9	6
1910.....	69.8	98	35	2.61	6.46	0.55	14	10	7
1911.....	71.4	102	36	7.63	15.14	2.60	11	8	12
1912.....	67.1	93	36	5.02	9.65	1.68	9	12	10
1913.....	70.4	102	38	2.69	10.93	0.70	17	9	5
1914.....	71.3	100	34	3.85	7.20	0.64	13	11	7
1915.....	68.0	99	34	6.71	14.44	1.92	10	11	10
1916.....	71.9	103	32	2.57	7.08	0.21	17	10	4
1917.....	71.2	101	38	6.69	17.50	1.06	15	10	6
1918.....	73.6	106	32	4.12	8.02	1.05	16	10	5
1919.....	68.2	94	35	5.43	12.08	2.35	13	10	8
1920.....	70.2	95	37	4.66	9.29	1.93	9	12	10
1921.....	68.4	97	35	3.83	6.68	1.81	17	8	6
1922.....	69.1	100	31	3.14	8.16	1.15	15	9	7
1923.....	69.2	96	30	3.10	7.30	0.59	15	11	5

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	1.7	3.0	30	1.3	25	18
Phillipsburg.....	Delaware.....	0.4	1.7	1	0.0	18	22
Mauch Chunk.....	Lehigh.....	3.6	4.2	1	3.4	19	12
Wilkes-Barre.....	Susquehanna.....	2.1	2.5	30	1.7	23	20
Williamsport.....	Susquehanna.....	0.6	1.5	9	0.1	20	20
Harrisburg.....	Susquehanna.....	3.4	4.1	1	3.1	27	17
Freeport.....	Allegheny.....	2.0	4.3	1	1.1	26	22
West Newton.....	Youghiogheny.....	0.4	1.2	1	0.1	19	20
Lock No. 4.....	Monongahela.....	14.1	16.1	15	12.8	31	31
Pittsburgh.....	Ohio.....	7.7	9.0	1	7.0	27	22
Beaver Dam.....	Ohio.....	8.3	9.2	2	7.3	4	30

Climatological Data for August, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 0.1 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Allentown	Lehigh	254	11	71.4	.....	92	6†	47	23†	33	2.40	-1.95	0.67	0	9	11	12	8	w.	John A. Frick.
Altoona	Blair	1,615	36	68.2	-1.4	87	7	41	23	36	2.20	-1.19	0.62	0	14	17	11	3	w.	Lewis E. Biller.
Bethlehem	Northampton	295	39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. H. Brennecke, Jr.
Biglerville	Adams	125	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. C. Walton.
Bustleton	Philadelphia	467	56	72.8	-0.3	93	7	45	23	37	1.26	-3.70	0.61	0	11	19	5	7	se.	Experiment Station.
Carlisle	Cumberland	520	26	70.0	-0.3	94	7	40	23	41	1.80	-2.32	0.56	0	9	22	6	4	.....	Prof. C. E. Miller.
Catawissa	Columbia	1,272	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. H. Yetter.
Center Hall	Center	580	23	71.0	-1.2	91	7	43	23	34	3.61	-0.63	1.12	0	10	13	10	8	sw.	S. W. Smith.
Chambersburg	Franklin	1,120	13	68.8	-1.1	96	7	30	25	45	2.88	-2.26	1.45	0	5	14	12	5	se.	William B. Spear.
Clearfield	Clearfield	380	35	71.4	+1.7	93	3	43	23	34	6.11	+1.68	2.17	0	11	10	15	6	s.	E. W. Hess.
Coatesville	Chester	560	13	69.6	.....	90	6	42	23	34	2.16	-3.42	0.67	0	13	18	3	10	s.	Prof. W. T. Gordon.
Colebrook	Lebanon	1,050	35	65.8	-2.1	87	7	40	27	38	2.27	-1.80	0.61	0	7	17	10	4	w.	Wm. A. Rorer.
Emporium	Cameron	380	22	72.2	+0.4	90	3†	44	23	34	1.88	-3.02	0.44	0	9	14	13	4	s.	T. B. Lloyd.
Ephrata	Lancaster	1,040	25	68.8	-1.1	87	7	42	23	36	2.88	-2.18	0.85	0	9	16	9	6	s.	E. K. Hershey.
Everett	Bedford	1,970	8	63.4	.....	87	6	36	23	33	2.76	.....	1.01	0	8	12	13	6	sw.	J. E. Thropp Co.
Freeland	Luzerne	190	16	70.0	-1.4	91	4	43	23	33	4.30	-0.30	1.60	0	10	21	7	3	s.	Theo. Reichmann.
George School	Bucks	600	49	72.2	+0.5	95	7	44	23	35	3.88	-0.19	1.65	0	7	9	15	7	w.	Prof. N. W. Swayne
Gettysburg	Adams	840	19	67.5	-0.7	90	6†	36	23	43	2.82	-1.95	1.20	0	7	12	15	4	w.	Col. E. B. Cope.
Gordon	Schuylkill	535	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Capt. J. G. Johnson.
Hamburg	Berks	600	19	72.3	-1.3	92†	7	46	23	29	6.05	+1.27	2.52	0	12	18	9	4	s.	State Sanatorium.
Hanover	York	361	53	71.8	-0.3	92	7	49	24	28	0.73	-3.52	0.38	0	8	12	8	11	sw.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	900	4	66.6	.....	91	7	32	24	44	2.96	.....	0.77	0	7	.....	.....	.....	.....	U. S. Weather Bureau.
Hawley	Wayne	650	35	70.0	-0.7	92	7	39	23	42	3.54	-0.55	1.38	0	9	18	4	9	w.	J. S. Pennell.
Huntingdon	Huntingdon	570	3	70.4	.....	94	7	40	23	39	3.55	.....	0.90	0	8	20	8	3	.....	Prof. W. J. Swigart.
Jersey Shore	Lycoming	340	51	71.9	0.0	92	3	43	23	36	3.32	-1.69	1.35	0	5	21	8	2	sw.	C. B. McCullough.
Kennett Square	Chester	255	35	72.2	-0.5	94	7	41	23	40	2.41	-1.62	0.71	0	8	25	4	2	e.	W. P. Mercer.
Lancaster	Lancaster	1,000	25	.....	.....	93†	11	36†	23	47†	1.43	-2.37	0.65	0	4	.....	.....	.....	.....	Supt. of Water Works.
Lawrenceville	Tioga	469	82	71.4	-0.6	92	3	44	23	35	1.59	-3.02	0.57	0	9	14	15	2	sw.	C. P. Darling.
Lebanon	Lebanon	450	48	71.3	+2.4	96	7	42	25	39	3.24	-1.43	1.19	0	9	14	9	8	w.	S. B. Benzing.
Lewisburg	Union	616	34	73.2†	+1.9	93†	7	47†	23	36†	2.66	-1.51	0.90	0	8	19	8	4	se.	Prof. W. G. Owens.
Lock Haven	Clinton	680	8	70.6	.....	94	7†	38	23	44	2.43	.....	1.35	0	8	16	11	4	nw.	R. Scott Kift, C. E.
Lykens	Dauphin	50	3	73.8	.....	95	3	50	23	31	4.85	.....	1.94	0	9	4	25	2	w.	Susquehanna Collieries Co.
Marcus Hook	Delaware	600	33	68.6	-1.7	90	6†	40	23	40	4.01	-0.96	1.28	0	7	20	4	7	w.	Gen. Chemical Co.
Mauch Chunk	Carbon	445	19	71.6	+1.0	95	8	43	23	40	1.32	-3.20	0.50	0	11	14	3	14	w.	R. K. Wintermute.
Millintown	Junata	1,720	20	65.2	-1.7	91	11	39	23	38	3.17	-0.36	2.20	0	6	21	8	2	w.	Wellington Smith.
Montrose	Susquehanna	1,658	20	62.0	-2.2	79	7†	34	23	33	3.17	-1.17	0.87	0	5	14	12	5	nw.	Silas Jagger.
Mt. Pocono	Monroe	1,045	11	66.0	.....	91	7	37	23	38	4.08	-1.16	1.98	0	7	13	15	3	sw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	300	4	71.6	.....	91	3	46	23	31	6.72	.....	4.10	0	9	17	6	8	sw.	A. H. Boatman.
Narberth	Bucks	60	34	70.4	.....	92	4	43	23	34	2.96	.....	1.14	0	11	16	8	7	s.	Charles Decker.
Neshaminy Falls	Carbon	398	6	69.6	.....	94	6	40	23	36	3.59	.....	1.29	0	8	17	11	3	ne.	North Springfield Water Co.
Palmerston	Philadelphia	117	52	73.8	-1.0	91	7	55	23	24	4.26	-0.35	1.52	0	10	11	10	10	sw.	F. G. Breyer.
Philadelphia (a)	Philadelphia	12	7	73.7	.....	92	8	54	24	26	7.06	.....	2.20	0	10	.....	.....	.....	.....	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	100	12	70.7	.....	90	7†	43	23	35	7.30	.....	2.43	0	10	21	10	0	sw.	Commandant, Navy Yard.
Phoenixville	Chester	496	38	67.6	+0.4	88	7†	37	23	41	2.71	-1.58	0.82	0	10	17	7	7	nw.	North Springfield Water Co.
Quakertown	Bucks	325	53	72.5	+0.1	92	7	48	23	30	1.27	-3.21	0.32	0	8	10	17	4	se.	John E. Benner.
Reading	Berks	805	28	68.4	-0.9	91	7	45	24	33	3.32	-0.93	1.74	0	8	10	16	5	s.	U. S. Weather Bureau.
Scranton	Lackawanna	455	33	69.6	-1.9	94	7	39	21	48	2.76	-1.64	1.66	0	5	15	12	4	sw.	U. S. Weather Bureau.
Selinsgrove	Snyder	51	27	67.2	.....	90	5†	36	23	43	4.24	-0.89	2.25	0	7	17	13	1	nw.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	1,217	38	66.9	-1.8	88	7†	41	23	36	1.84	-1.94	0.59	0	9	10	12	9	sw.	W. S. Guiles.
State College	Center	754	28	67.0	-1.5	90	11	41	23†	41	2.18	-1.52	0.48	0	8	15	10	6	nw.	C. A. Kern.
Towanda	Bradford	1,419	57	64.3	-2.1	89	6†	32	23	41	2.24	-1.47	0.86	0	6	18	9	4	w.	Hiram E. Bull, C. E.
Wellsboro	Tioga	455	85	70.7†	-1.3	91†	3	46†	23	28†	5.44	+0.76	2.68	0	12	17	11	3	sw.	George W. Hill.
West Chester	Chester	521	36	70.4	-0.3	94	7	43	23	37	2.27	-2.34	0.84	0	9	24	4	3	se.	Arthur M. Hay.
Williamsport	Lycoming	400	35	71.8	-0.8	92	7	42	23	36	2.98	-1.31	0.98	0	10	19	5	7	n.	Jacob April.
York	York	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	30	71.2	.....	91	7	42	23	37	2.38	.....	0.80	0	10	9	11	11	sw.	U. S. Engineer.
Bradford	McKean	1,427	8	65.1	.....	91	6	34	23	48	1.94	.....	0.76	0	8	10	18	3	sw.	City Engineer.
Brady Bend	Armstrong	930	5	65.8	.....	92	7†	31	23	47	1.81	.....	0.85	0	7	9	16	6	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	32	64.3	-2.2	91	7	32	23	44	3.29	-0.84	0.81	0	9	21	7	3	.....	John Fawcett.
Claysville	Washington	1,150	19	71.2	-0.3	93	7	39	23	39	3.55	-0.78	0.99	0	12	18	8	5	n.	J. L. Melvin.
Corry	Erie	1,430	11	65.4	.....	90	6	35	26	40	2.45	.....	0.90	0	8	11	17	3	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	26	69.8	-1.5	91	7	39	23	37	3.02	-1.15	0.72	0	10	13	11	7	sw.	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	5	64.8†	.....	86†	7†	31†	23	39	2.83	.....	0.72	0	12	19	8	4	sw.	D. H. Jones.
Elk Lick	Somerset	2,680	6	66.2	.....	85	5†	35	23	35	3.44	.....	1.00	0	8	17				

Daily Precipitation for August, 1923.																																	
Stations	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh.....				.18	.16	T.						.24		.02							.51		.67					.28	.33	.01		2.40
Altoona|||	Juniata.....	.01	.02	.14	.27	.35	.03						.20						.02	.01	.12			.35					.62	T.			2.20
Ansonia|||	W. Br. Susq.			1.98	.58	.03								.42		.15								.21				.02		.18	.54		4.09
Bethlehem	Lehigh.....																																
Biglerville.	Susquehanna.																																
Blossville.	Lower Susq.											.47						.17						.57					1.90			3.11	
Bustleton.	Lower Del.				1.03	.45						.21				.06						.18		.40				.03	T.	.49		2.85	
Carlisle.	Lower Susq.	.01		.04		.02			.01			.08				.03		.16	.07	T.			.61						.09	.14		1.26	
Catawissa.	N. Br. Susq.			.05	.08							.44									.21		.22	.20		.04			.30	.26		1.80	
Center Hall.	Susquehanna.																																
Chambersburg	Potomac.....	T.		.04	.01	1.12			.23				.52				.73	.16						.24					.54	.02		3.61	
Clearfield.	W. Br. Susq.	T.		T.	T.	.81	.33					.25								T.						.04			1.45	T.		2.88	
Coatesville.	Lower Del.			.45	.16	.64						.53	.04						T.		.24		.25					.72	.87	1.30		.91	6.11
Colebrook.	Schuylkill.	T.		.04	.03	.18		.13				.34	.01				.02	.01	.29	T.		.37						.06	.67			2.16	
Conshohocken.	Lower Susq.			.10	.21	1.29						.07				.23			T.		.15			.31					.07	1.06	.02		3.51
Cresson|||	Juniata.....			.15	.30	.47	.33	.07	.06				.34					.05				.12		.48				.12		.52			3.01
Doylstown.	Lower Del.	.01		T.	1.21	.04						.97	.32		.08					.76				.52				.02	.04	1.01			4.98
Driftwood.	W. Br. Susq.			.30	.25			.58				.10											.55			.15			.63		T.	2.56	
Emporium.	W. Br. Susq.			.08	.18			.24	T.			T.								.41			.55					.20	.61			T.	2.27
Emporium.	W. Br. Susq.			.08	.18			.24	T.			T.											.44		.34				.18	.30	.07		1.88
Ephrata.	Lower Susq.			.02	.27			.02				.24		T.															.18	.30	.07		2.88
Everett.	Juniata.....	.05		.75	.10	.10					.05							.85											.28	.10			2.88
Forest City.	N. Br. Susq.			.43								.17			.47					.71			.60				.07		.54	2.40			5.44
Freeland|||	Lehigh.....	.08	.06		.08							T.	.76							.07				.65				T.	.08	.62			2.76
George School.	Lower Del.			T.	.39	.06	T.					.37	.31		.40					1.60	T.		.49		T.			.09	.08	.51			4.30
Gettysburg.	Potomac.....	T.				.70			T.				.20					.68	.20				.32						.13	1.65			3.88
Girardville|||	Susquehanna.			.07	.03			.06				.64								.25		.93					.01		.30	.95			3.24
Gordon.	Lower Susq.			.08	T.	.04						.10	.70										1.20			T.			.69	.01			2.82
Gouldsboro|||	Lehigh.....	.16						.20				.45		.26								.21						.22	.50	.45			1.95
Graterford.	Schuylkill.					.11						.84	.11	.21								.48		.17				.06	.65	.16			2.79
Hamburg.	Schuylkill.											.61		.34										.67					.82	.83			3.27
Hanover.	Lower Susq.	.01	T.	1.17	.13	2.52						.39					.53	.07			.03		.03		.60				.07	.50	.03		6.05
Harrisburg**	do.			T.	.06	T.			T.			.07			.04		.05			.03				.38				.01	.09				0.73
Hawley|||	Upper Del.	.77				.43						.23		.24								.48		.54						.27			2.96
Holtwood|||	Lower Susq.			.63								.45		.03				.07	.09				.15						.13	1.64	.03		2.77
Huntingdon.	Juniata.....	T.		1.35	.05	1.38	.03		.02			.10							T.		.02			.35				T.	.24	T.			3.54
Jersey Shore.	W. Br. Susq.			.03	T.	.39		.10	T.			T.	.72		T.					.80				.55			.06			.90			3.55
Kennett Square.	Delaware.				T.	1.13						.20									.41		.23						1.35			3.32	
Lancaster.	Lower Susq.			.04								.48	.02					.05					.51					.18	.71	.42			2.41
Lansford|||	Lehigh.....	.01				.56		.09				.18		.44								.50		1.10					.30	.21			3.21
Lawrenceville.	N. Br. Susq.				.35							.18		.25										T.		T.			.65			1.43	
Lebanon.	Lower Susq.			.03	.02	T.	.02				.07	T.		.53	.04					.29		.57							.35	.20			1.59
Lewisburg.	W. Br. Susq.	T.		.79	.03	.20		.03	T.				T.							T.				.40				.05	.02	1.19			3.24
Lloyd.	W. Br. Susq.											.01												.18						.90	.02		2.66
Lock Haven.	W. Br. Susq.				.89	.14		.50				T.	T.		.03														.90	.02			2.43
Lykens.	Susquehanna.	T.		T.		.49			.04			T.	T.		.03								.03	1.35				.03	.41	.05			4.85
Marcus Hook.	Lower Del.	T.		.11	.03	1.38						.02						T.			1.20		.03	1.35					.01		1.94		4.01
Mauch Chunk.	Lehigh.....			.10	1.28	T.		.04				.74									.20		1.05						.60				4.01
Mifflintown.	Juniata.....	.03			.12		.10	.03					.02		.11						.05		.50					.05		.30	.01		1.32
Montrose.	N. Br. Susq.			.15								.33			.37						.20								2.20				3.85
Mount Pocono.	Upper Del.	.60		.87								.55											.65						.50	T.			3.17
Mount Union|||	Juniata.....		.37			.63						.10		.11					T.				.56						.05				1.82
Muncy Valley.	W. Br. Susq.			.96		.07						.45			.12						.05			.45						1.98			4.08
Narberth.	Lower Del.	T.		.01	.29	4.10	T.					.11			T.			.01	T.			.38		.34				T.	.26	1.22			6.72
Neshaminy|||	Lower Del.	.02				.10	.68						1.14		.05							.14		.18		.05			.05	.50	.05		2.96
Palmerton.	Lehigh.....			.08	.45			T.				.45											.24		.69			.05	1.29				3.59
Philadelphia (a.)	Lower Del.	T.		.53	.17	1.15						.32			.01				T.		.35		.15					.06	.94	.58		</	

Daily Precipitation for August, 1923.—Continued from page 31.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Franklin|||	Allegheny					.10			.18				.47	T.									.36						.55	.16	.04	1.86	
Freeport|||	Allegheny			.08	.09	.10	T.					.25		.32								.23	.25			.17			1.08	.15		2.27	
Greensburg.	Youghiogheny			.10	.10	.32			.20				1.06			T.		.14					.74					.10	.37	.01		3.14	
Greenville.	Beaver			.25				.02					.24										.46						.83	.02		1.82	
Grove City.	Beaver			.35		.01	T.	.02					.37										.28					.30	1.03			2.36	
Herrs Isl. Dam|||	Ohio	.20		.43	.04	.07	.03	T.	.11				.05	.20		.01		T.	T.			.08				T.		1.20	.94	T.		3.74	
Indiana.	Conemaugh.			.04	.05	.02		.05													.25						.18					0.69	
Ingram.	Ohio		.11	T.	.29	.03		.20					.20			.02		T.		T.			.52					.58	1.11	.14	.01	3.21	
Irwin.	Youghiogheny			.34		.74		.44					1.26				.11						.51					.01	.99	.10	.07	.07	4.64
Johnstown.	Conemaugh.		.19	.55	.09	.22	.84	.19					.69					.16			.25		1.25					.15	.32	.21	.02	4.92	
Ketner.	Allegheny			.61		.13		.37	.11				.05			.07						.07	.20						.69			2.51	
Linesville|||	Beaver			.14		.29		.14				.07											.91						1.37	.23		3.15	
Lock No. 4|||	Monongahela.				.10	.03	.27						.17	.40		.10		.05	.07				1.24				.24	.21				2.88	
Lycippus.	Conemaugh.		T.			.10	T.	.17	.42				.53						.19				1.52					.10		T.		3.03	
Martin.	Monongahela.	.03			1.40	.20	.43	.40		.12			.08	.66		.03		.06	.38			.14		.56					T.	.09		.18	4.76
New Castle|||	Beaver			.45	1.15								.26	.65									.04					.95	.06	.05		3.61	
Newell.	Monongahela.			.16									.52			.01		.12		.15		.60	.03					.21	.31			2.11	
Parkers Landing|||	Allegheny			.25	.35	.05		.17	T.				.08										.20						.52	.35	T.		1.97
Pennline|||	Beaver			.43	.06	.24			.23				.09										1.03						.85			2.93	
Pittsburgh***	Ohio			.71	T.	.03	.02		.22				.32		.03		T.	T.			.01		.47	.06		T.			.87	1.48	.02	T.	4.24
Ridgway.	Allegheny			.26	.23			.13					.11										.69						1.07			2.49	
Saltsburg|||	Conemaugh.			.08	.09		.34	.56					.02	.50				T.	.04				.35				.06		.38	.42		.02	2.86
Saegertown.	Allegheny			.13			.27	.23															.87			T.			.85			2.35	
Sharon|||	Beaver	.30		.02	.53	.01		.01	.15				1.08	.19									.14						.42	.27	T.	3.12	
Somerset.	Youghiogheny			.20	.22	.20				T.				.40				.75	T.	T.			.90					.22	.24	T.		3.13	
Springdale|||	Allegheny				.10	.04	.01	.42	.01	.01			.04	.37									.40				.40	.02	.68	.10	.02		2.62
Stoyestown.	Conemaugh.		.14	.42		.06	.15		.07		.46		.65	.01		.03		.62	.02		.05		1.15					.17	.11			4.11	
Summit|||	Beaver		.39	.25	.15				.10														1.18						.71			.15	2.93
Tionesta.	Allegheny			.45					.05				.37										.17						1.14	.09	.04		2.31
Uniontown.	Monongahela.			.90	.23	.12	.20	.46					.90					.42		.05			.69				.09		T.	.08		4.14	
Unity Reservoir|||	Youghiogheny			.16	.30	.38	T.		.23				.89					.22					.64						T.	.46	.05		3.33
Vandergrift.	Conemaugh.						.46						.71	.33									.30					.17	1.52			3.49	
Warren.	Allegheny		.33		.04				.04				.22		.30								.36						.22			.36	1.87
Washington.	Ohio			.55	.02	.01			T.				.45		.07	.02	T.	.15		.04			.84	.05				.30	.14	.05		2.69	
Waynesburg|||	Monongahela.			1.19	.26								.90				.05		.31			.26		.63		.01			.04	.09	.04	.58	4.36
Westford|||	Beaver			.10	.03								.09										.93						1.43	.12		2.70	
West Newton|||	Youghiogheny	T.			.96	.08	.22			.71			.05	.07		.06		.06	.09				.85						.70	.15		4.00	
Lake Drainage.																																	
Erie***	Lake Erie.		T.						.11						.07								.42			.01			.05	.77			1.43
West Bingham.	Genesee.																																

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch.

§ Incomplete or missing.

†† Post Office address:—Greensburg

Daily Temperatures for August, 1923.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.		
Allentown.....	Maximum ...	69	85	93	91	90	92	92	85	84	88	88	86	79	82	87	76	78	82	88	80	87	72	72	78	80	80	79	80	81	85	87	83.1	
	Minimum	61	64	70	72	65	68	64	60	59	66	70	69	51	60	57	59	56	54	56	54	56	50	47	53	47	53	63	64	60	61	61	59.7	
Altoona.....	Maximum	68	82	85	84	81	81	87	80	78	81	85	85	74	81	80	72	67	75	82	75	85	78	67	72	70	75	75	77	78	79	82	78.1	
	Minimum	61	64	65	65	66	64	68	69	53	65	64	75	65	58	65	59	58	58	54	52	49	46	41	45	53	44	52	61	61	53	56	58.4	
Catawissa.....	Maximum	64	83	90	90	93	93	94	86	87	88	93	90	88	89	76	76	83	87	83	88	74	78	78	76	79	78	77	83	86	88	83.8		
	Minimum	59	73	63	67	69	60	72	62	48	53	66	69	64	47	50	52	54	52	56	49	48	52	40	45	52	43	49	56	61	54	53	56.1	
Chambersburg.....	Maximum	73	82	89	87	87	89	91	89	82	81	89	90	82	82	86	82	73	72	85	80	87	82	73	76	79	79	79	78	82	84	82	84	
	Minimum	62	66	64	68	68	66	69	68	60	60	69	67	66	54	66	57	59	58	55	61	53	54	43	48	50	46	54	62	61	55	55	59.5	
Emporium.....	Maximum	74	85	80	85	85	85	87	74	78	84	86	86	75	80	76	71	69	78	81	74	85	67	68	72	68	70	78	74	79	78	82	77.9	
	Minimum	64	64	67	65	69	54	68	58	46	47	58	62	58	45	58	49	45	55	57	46	47	43	42	44	47	41	40	64	60	50	54	53.8	
Erie.....	Maximum	83	87	83	83	83	88	88	78	76	83	86	80	73	85	72	73	73	78	74	71	86	62	64	71	64	68	79	70	72	75	82	77.3	
	Minimum	67	69	70	69	67	66	74	63	58	61	64	73	64	58	62	59	58	56	63	54	54	50	51	51	53	47	54	63	61	60	60	60.6	
Grove City.....	Maximum	82	88	85	85	81	86	90	85	80	88	90	83	81	83	79	72	77	83	84	83	85	68	69										
	Minimum	62	64	69	64	67	66	60	69	52	52	57	57	60	49	60	51	54	57	58	46	45	44	39										
Harrisburg.....	Maximum	71	80	89	88	82	88	92	84	81	81	86	89	78	80	86	74	66	77	86	78	85	78	72	76	77	78	78	83	83	84	80.8		
	Minimum	62	65	68	71	74	72	73	68	63	63	70	78	67	57	69	60	59	59	60	60	57	54	51	49	56	53	58	68	64	62	61	62.8	
Holtwood.....	Maximum	73	80	86	87	91	91	89	89	82	84	84	91	78	80	87	77	66	78	84	78	86	80	71	77	80	80	78	77	82	80	86	81	81
	Minimum	62	64	68	69	68	73	71	69	62	62	71	73	62	57	63	60	59	59	59	57	57	53	50	51	59	53	60	68	66	62	62	62.4	
Indiana.....	Maximum	83	86	86	84	86	85	92	91	86	90	89	86	78	81	82	81	75	85	84	77	85	84	73	74	80	80	78	78	80	80	84	82.7	
	Minimum	60	65	65	65	71	60	71	60	54	56	58	68	62	50	59	53	58	55	58	62	50	45	38	44	44	42	44	50	63	60	51	56.1	
Mifflintown.....	Maximum	71	70	83	93	88	83	88	95	89	86	89	93	83	84	88	81	71	78	88	82	90	83	74	75	79	82	77	79	82	87	85	83.1	
	Minimum	65	64	67	68	71	72	79	70	69	59	59	68	70	52	67	56	62	60	57	56	50	52	43	45	49	46	53	65	62	55	55	60.2	
Philadelphia.....	Maximum	69	82	91	90	88	87	91	91	80	85	79	83	82	82	89	75	70	79	84	80	87	78	72	77	82	80	79	83	78	85	85	82.0	
	Minimum	61	63	70	72	72	68	67	74	66	67	70	72	68	64	71	63	64	63	62	66	65	55	58	63	61	62	67	69	66	66	65.5		
Pittsburgh.....	Maximum	85	89	81	82	86	87	90	78	84	86	86	85	74	83	79	75	75	84	82	75	84	66	69	71	71	75	76	78	78	81	83	79.8	
	Minimum	66	70	72	70	73	70	75	69	62	61	66	70	63	59	63	59	63	60	64	57	59	51	46	50	54	50	59	65	64	58	62	62.3	
Reading.....	Maximum	67	82	92	91	90	92	92	85	82	85	88	87	79	79	83	72	69	81	87	80	87	76	71	76	78	79	79	81	83	86	82	80.0	
	Minimum	61	63	74	73	75	74	69	70	63	65	70	71	66	56	69	61	63	61	59	60	57	57	48	49	56	52	59	64	67	62	60	63.0	
Scranton.....	Maximum	75	80	89	87	89	91	91	77	82	85	90	87	72	78	77	73	76	81	83	76	83	69	70	73	73	74	76	74	79	82	84	79.1	
	Minimum	60	61	67	69	70	58	67	60	52	53	68	66	56	48	60	55	50	52	58	50	52	51	45	45	55	48	52	67	61	53	56	56.9	
Somerset.....	Maximum	73	86	83	82	82	83	84	83	81	86	85	85	80	81	81	78	78	77	80	75	82	76	68	72	69	75	80	78	79	74	81	79.3	
	Minimum	62	60	68	60	68	62	68	56	61	53	62	62	63	45	60	57	58	58	57	52	45	40	36	40	40	50	50	50	58	50	49	54.8	
State College.....	Maximum	70	80	83	84	83	83	88	80	79	84	88	80	73	78	88	71	65	75	80	72	84	78	67	73	69	73	73	78	78	81	82	78.0	
	Minimum	58	63	66	63	68	62	66	67	48	53	61	67	61	48	63	51	55	56	55	50	48	45	41	43	51	42	51	63	59	53	53.8		
Towanda.....	Maximum	82	84	86	87	87	87	89	74	80	87	90	89	71	79	76	73	79	81	84	77	83	62	69	75	74	72	80	76	78	81	82	80.4	
	Minimum	61	63	67	67	67	66	69	58	42	46	62	60	58	43	57	50	44	47	61	44	47	48	41	41	49	43	43	65	58	51	52	53.5	
Uniontown.....	Maximum	80	87	82	82	85	86	86	82	82	86	87	82	77	82	82	75	71	79	83	75	84	79	68	74	72	75	79	81	77	79	83	80.1	
	Minimum	68	65	69	68	70	70	72	74	66	62	63	69	65	55	65	67	63	59	62	57	53	47	43	47	55	46	55	65	66	55	67	60.9	
Warren.....	Maximum	84	90	86	89	90	93	93	80	86	90	91	86	86	85	78	78	81	86	85	87	68	69	72	70	74	78	80	77	81	84	87	82.7	
	Minimum	64	65	60	65	64	55	69	60	47	48	50	51	55	44	56	49	45	51	55	46	40	40	40	41	40	39	41	62	54	49	55	51.6	
Wellsboro.....	Maximum	75	87	81	86	87	89	89	82	89	88	88	86	72	80	72	76	76	80	88	76	84	79	69	73	69	75	69	73	76	80	84	79.9	
	Minimum	60	62	60	60	61	52	66	56	39	48	58	56	52	40	52	54	48	47	52	36	43	42	32	36	40	37	37	40	52	47	50	48.7	
Williamsport.....	Maximum	74	85	85	89	87	87	94	93	82	87	92	92	83	83	82	82	76	80	86	85	87	85	73	76	75	78	75	77	84	82	83.2		
	Minimum	63	66	67	68	69	61	70	65	50	55	65	66	64	50	60	55	52	55	57	50	50	51	43	46	50	45	56	65	62	55	57	57.5	

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXVIII.

SEPTEMBER, 1923.

No. 9.

GENERAL SUMMARY.

This was the first month since January with the average precipitation for the State above normal. During the intervening seven months the deficiencies ranged from 0.09 inch in July to 1.76 inches in June, the accumulated deficiency for the entire period amounting to 5.85 inches. In September most parts of the State enjoyed the benefit of generous, well timed showers, which came early enough to supply the moisture needed in the soil for fall seeding.

Temperatures were generally very favorable for crop development, although there was a period of cool weather about the middle of the month with scattered frosts in the mountain and plateau sections from the 11th to the 17th. Vegetation, however, was not injured to much extent except in valley locations.

Pastures were greatly improved during the month; corn ripened rapidly and very little of it was affected by frost. Seeding of winter wheat was well advanced and in some places nearly completed before the end of the month. Alfalfa cuttings were better than those in August. Buckwheat was nearly all harvested during the month with yields mostly described as fair to good.

TEMPERATURE.

The average temperature for the State, as determined from the records of 82 stations, was 64.8°, which is 1.2° above the September normal. The highest monthly mean temperature was 69.9° at Marcus Hook, and the lowest was 57.8° at West Bingham. The extremes for the State were 92° at Lancaster on the 4th and 22° at West Bingham on the 17th.

PRECIPITATION.

The average precipitation for the State, as determined from the records of 126 stations, was 3.55 inches, which is 0.32 inch more than the September normal. The greatest total for any of the stations was 8.68 inches at Biglerville, and the least was 1.54 inches at Parkers Landing. The greatest 24-hour rainfall was 3.02 inches at Gouldsboro on the 23d. Over the greater part of the State the total rainfall for the month was between two and four inches, but there were extensive areas near the eastern edge of the mountain region where the rainfall was from five to eight inches or more, which was about three times as much as fell at several stations in the valley of the Allegheny and Monongahela rivers.

G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.				
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	164.7	374.3	44	76	72	7,836	10.9	38	w.	8
Harrisburg.....	214.6	373.5	57	81	70	3,450	4.8	26	ne.	30
Philadelphia.....	236.1	373.5	63	76	66	5,351	7.4	28	ne.	30
Pittsburgh.....	253.4	374.0	68	84	68	5,586	7.8	31	w.	13
Reading.....	225.0	374.0	60	82	79	2,373	3.3	13	se.	22
Scranton.....	.....	.....	.....	88	75	3,496	4.9	19	sw.	3

* For any five-minute period.

COMPARATIVE DATA FOR SEPTEMBER.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	59.6	.....	.....	4.84	.....	.....	.....	.....	.....
1889.....	61.9	.....	.....	5.05	.....	.....	.....	.....	.....
1890.....	62.2	91	25	4.57	8.54	2.05	10	9	11
1891.....	66.6	94	32	2.39	5.00	1.05	17	8	5
1892.....	62.4	90	29	2.81	4.85	1.18	16	7	7
1893.....	61.2	90	26	2.67	5.59	0.72	9	12	9
1894.....	66.6	95	24	6.30	12.36	2.82	10	10	10
1895.....	67.8	100	24	1.71	5.41	0.37	16	9	5
1896.....	63.6	98	26	4.82	8.57	1.73	13	8	9
1897.....	63.8	100	24	2.18	4.21	0.25	18	7	5
1898.....	66.0	100	25	1.70	3.95	0.38	16	8	6
1899.....	61.8	93	23	4.70	9.31	2.03	12	9	9
1900.....	68.4	100	27	1.77	6.90	0.48	13	10	7
1901.....	63.6	95	29	3.39	6.61	1.64	14	7	9
1902.....	62.7	99	28	4.66	11.95	1.50	12	8	10
1903.....	63.2	94	27	2.09	3.88	0.91	17	8	5
1904.....	63.7	95	21	3.37	7.40	0.82	13	10	7
1905.....	64.0	95	27	3.41	7.30	1.70	15	9	6
1906.....	67.0	99	30	2.46	6.57	0.36	15	9	6
1907.....	64.8	95	29	6.37	11.86	2.18	8	10	12
1908.....	65.6	99	26	1.60	4.06	0.51	17	9	4
1909.....	62.8	96	26	2.27	4.90	0.64	15	9	6
1910.....	65.5	95	32	4.49	8.45	2.26	13	8	9
1911.....	64.9	92	26	5.29	10.18	1.85	13	9	8
1912.....	65.5	95	25	5.57	11.43	2.47	12	7	11
1913.....	62.4	97	24	3.28	8.43	1.24	13	7	10
1914.....	61.5	98	21	0.99	2.67	0.03	18	7	5
1915.....	66.5	96	25	2.56	6.96	0.45	16	9	5
1916.....	62.5	98	23	3.77	8.18	0.91	17	8	5
1917.....	59.0	91	25	2.31	6.34	0.00	16	9	5
1918.....	58.7	88	28	3.97	7.52	1.82	12	8	10
1919.....	64.4	96	28	2.07	4.09	0.46	16	8	6
1920.....	64.5	91	24	3.99	9.40	0.97	16	8	6
1921.....	68.9	98	31	4.68	11.48	1.47	13	9	8
1922.....	66.3	100	22	1.48	3.73	0.17	19	7	4
1923.....	64.8	92	22	3.55	8.68	1.54	13	10	7

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	2.3	4.0	24	1.7	4	18
Phillipsburg.....	Delaware.....	0.8	2.7	24	0.0	3	22
Mauch Chunk.....	Lehigh.....	3.5	4.3	24	3.4	1	12
Wilkes-Barre.....	Susquehanna.....	2.4	3.3	26	2.0	18	20
Williamsport.....	Susquehanna.....	0.5	0.9	10	0.2	18	20
Harrisburg.....	Susquehanna.....	3.5	3.8	25	3.2	19	17
Freepoint.....	Allegheny.....	1.2	2.0	24	0.8	18	22
West Newton.....	Youghiogheny.....	0.1	0.3	7	0.0	3	20
Lock No. 4.....	Monongahela.....	13.3	15.9	23	12.7	3	31
Pittsburgh.....	Ohio.....	7.2	8.2	23	6.8	19	22
Beaver Dam.....	Ohio.....	8.1	9.0	23	7.5	21	30

Climatological Data for September, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 0.1 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	11	66.1	.....	88	4	38	16	36	3.63	+0.28	1.08	0	11	10	14	6	sw.	John A. Frick.
Altoona.....	Blair.....	1,615	36	61.7	-1.0	84	1	34	16	35	2.85	+0.07	0.94	0	9	14	12	4	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	295	39	68.2	+2.0	90	4	40	17	39	4.10	+0.71	1.22	0	8	3	24	3	e.	R. H. Brennecke, Jr.
Biglerville.....	Adams.....	.....	1	66.2	.....	87	4	37	16	34	8.68	.....	1.92	0	11	13	4	13	nw.	R. C. Walton.
Bustleton.....	Philadelphia.....	125	4	68.8	.....	91	4	38	18	36	3.72	.....	1.52	0	7	12	7	11	s.	Experiment Station
Carlisle.....	Cumberland.....	467	56	67.2	+2.5	89	4	33	17	45	5.61	+1.99	1.81	0	13	16	7	7	ne.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	26	65.4	+1.9	89	4	32	17	42	5.44	+2.04	2.23	0	10	16	7	7	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	27	62.5	+0.5	83	26	30	16	49	3.66	+0.67	1.45	0	6	19	9	2	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	23	66.0	+0.1	84	3	36	16	33	5.17	+2.43	1.52	0	11	15	8	7	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	13	65.2	+2.0	90	1	32	17	48	2.92	-0.86	0.93	0	9	18	5	7	sw.	E. W. Hess.
Coatesville.....	Chester.....	380	35	66.8	+0.7	85	4	38	17	36	3.98	+0.08	1.54	0	8	11	13	6	n.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	13	65.2	.....	87	4	34	17	36	4.32	+0.90	1.80	0	16	15	5	10	nw.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	.....	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	22	67.5	+2.0	86	4	37	17	35	3.89	+0.41	1.50	0	6	15	9	6	s.	E. K. Hershey.
Everett.....	Bedford.....	1,040	25	64.3	+1.5	86	24	35	16	33	3.14	+0.24	1.45	0	5	12	10	8	s.	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,970	8	58.8	.....	80	1	32	16	31	3.29	.....	0.72	0	14	9	13	8	sw.	Theo. Reichmann.
George School.....	Bucks.....	190	16	66.3	+1.4	87	4	37	18	44	5.27	+2.75	2.22	0	8	19	4	7	s.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	600	49	67.2	+2.2	90	4	38	16	35	5.27	+1.90	1.20	0	12	11	12	7	sw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	19	63.0	+1.2	84	1	28	17	42	3.51	-0.95	1.32	0	9	12	10	8	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	535	30	65.4	-0.1	86	4	35	17	38	6.72	+2.52	2.16	0	8	15	10	5	w.	State Sanatorium.
Hanover.....	York.....	600	19	67.4	+0.2	85	1	40	15	30	5.88	+3.03	2.56	0	10	17	6	7	n.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	53	67.2	+1.2	87	4	42	17	28	4.06	+0.71	1.50	0	12	8	10	12	ne.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	4	62.2	.....	87	1	29	17	45	4.36	.....	1.06	0	10	15	6	9	nw.	J. S. Pennell.
Huntingdon.....	Huntingdon.....	650	35	65.1	+0.8	88	4	35	15	36	2.31	-1.11	1.20	0	10	15	8	7	e	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	3	66.1	.....	89	1	35	15	38	3.92	.....	1.17	0	9	21	3	6	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	.....	W. F. Mercer.
Lancaster.....	Lancaster.....	255	35	67.4	+2.9	92	4	34	17	42	3.46	+0.12	1.62	0	10	21	7	2	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	25	63.0	+1.7	88	2	28	16	42	2.67	-0.36	0.55	0	9	18	7	5	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	82	66.6	+1.4	89	1	36	17	38	3.91	+0.73	1.11	0	12	15	11	4	se.	S. B. Benzing.
Lewisburg.....	Union.....	450	48	66.5	+4.5	88	1	34	16	41	2.71	-0.82	0.85	0	10	10	12	8	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	616	34	.....	.....	89	1	34	16	41	2.21	-1.29	1.24	0	8	20	4	6	se.	R. Scott Kift, C. E.
Lykens.....	Dauphin.....	680	8	65.4	.....	87	4	29	16	43	4.97	.....	1.41	0	11	15	10	5	nw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	3	69.9	.....	87	1	45	18	32	5.54	.....	2.71	0	8	.....	.....	.....	.....	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	33	65.4	+1.4	87	1	32	18	46	3.85	-0.02	1.05	0	9	13	6	11	w.	R. K. Wintermute.
Millintown.....	Juniata.....	445	19	66.4	+2.6	87	4	37	17	34	3.26	-0.53	1.10	0	12	12	8	10	w.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	20	59.9	-0.2	81	1	32	15	30	3.83	-0.09	1.50	0	10	15	3	12	s.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,658	20	59.9	+1.8	78	1	32	16	41	7.70	+2.81	2.10	0	13	10	8	12	sw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	11	62.1	.....	84	25	32	15	41	3.90	+0.42	1.12	0	10	8	19	3	w.	A. H. Boatman.
Narberth.....	Montgomery.....	300	4	68.0	.....	88	4	42	17	30	3.88	.....	1.84	0	9	11	9	10	sw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	34	66.5	.....	88	4	36	18	45	4.12	.....	1.35	0	6	16	6	8	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	6	65.7	.....	89	25	38	17	45	2.93	.....	1.20	0	10	10	13	7	ne.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	52	69.6	+1.6	85	4	50	16	20	3.64	+0.26	1.26	0	9	9	13	8	s.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	7	69.3	.....	86	4	48	16	25	4.73	.....	1.52	0	8	.....	.....	.....	.....	Commandant Navy Yard.
Phoenixville.....	Chester.....	100	12	67.2	.....	85	4	38	15	34	4.67	.....	1.66	0	7	20	8	2	se.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	38	64.6	+1.0	89	9	31	17	39	5.29	+1.63	2.11	0	11	9	12	9	nw.	John E. Benner.
Reading.....	Berks.....	325	53	67.5	+1.2	86	4	42	17	29	3.34	-0.31	1.51	0	12	15	9	6	se.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	28	64.0	+1.8	85	2	37	15	39	4.38	+1.52	2.10	0	12	6	13	11	n.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	33	65.6	+1.2	84	1	34	17	37	2.44	-1.22	1.20	0	11	10	12	8	s.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	27	.....	.....	87	4	.....	.....	.....	3.80	+0.57	1.41	0	7	20	6	4	nw.	W. S. Guiles.
State College.....	Center.....	1,217	38	62.0	-0.4	83	1	33	16	34	2.51	-0.55	1.46	0	8	9	14	7	sw.	C. A. Kern.
Towanda.....	Bradford.....	754	28	62.6	+0.6	85	3	31	15	44	2.51	-0.52	0.60	0	8	12	7	11	s.	Miram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	57	59.4	-0.3	83	3	26	17	43	2.16	-1.05	0.71	0	7	19	4	7	w.	George W. Hill.
West Chester.....	Chester.....	455	85	66.2	+0.9	83	4	42	17	27	4.37	+0.45	1.33	0	9	19	6	5	sw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	36	65.4	+1.5	84	1	35	15	33	5.40	+2.19	2.53	0	10	17	6	7	sw.	Jacob April.
York.....	York.....	400	35	66.9	+1.3	87	4	34	17	38	4.91	+1.58	1.74	0	11	17	5	8	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	30	67.0	.....	89	1	37	14	35	4.48	+1.89	1.53	0	10	12	9	9	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	8	61.1	.....	88	1	23	15	48	2.60	.....	0.65	0	12	10	16	4	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	5	61.4	.....	87	7	25	14	49	1.65	.....	1.15	0	7	13	14	3	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	32	60.6	+0.9	86	1	28	14	45	1.77	-1.55	0.72	0	6	24	3	3	.....	John Fawcett.
Claysville.....	Washington.....	1,150	19	66.0	+0.8	91	2	32	16	43	4.60	+1.80	2.00	0	11	17	5	8	n	J. L. Melvin.
Corry.....	Erie.....	1,430	11	62.4	.....	86	1	30	17	45	2.69	.....	0.68	0	14	8	16	6	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	26	65.8	+0.4	88	1	35	16	37	2.71	-0.10	0.84	0	12	13	13	4	w.	Wm. A. Huff, Jr.
Ebensburg.....	Cambria.....	2,000	5	60.0	.....	81	1	28	17	43	3.28	.....	1.71	0	8	20</				

Daily Precipitation for September, 1923.

Stations	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown	Lehigh				.03		.40	.02	T.	.56				.04							.29	.87	1.08	.03	.08	.23	T.						3.63
Altoona	Juniata		.92	.01	.94		.20	.30												.13	.15	.09		.11									2.85
Ansonia	W. Br. Susq.			.11		.73		.38	.16					T.						T.		.51	T.		.09					.25	.08		2.31
Bethlehem	Lehigh			.08		.42		.48						.08						.25	1.21	1.22		.36								4.10	
Biglerville	Susquehanna			.47	1.50	1.65	.12	.15	.05											.31	1.10	.33		1.92	1.08							8.68	
Bloersville	Lower Susq.		.19			3.02		.24	.37												.90	.96			.85							6.53	
Bustleton	Lower Del.			T.				.83	.03					T.						.25	T.	1.52	.44	.63	.02							3.72	
Carlisle	Lower Susq.		.04		1.54	.27	.18	.40	.02				.20							.18	.09	1.14	.07	1.28	.20							5.61	
Catawissa	N. Br. Susq.			T.		.30	.02		.59				.16							.24	.02	.60	1.28	.16	2.07							5.44	
Center Hall	Susquehanna				1.45			.78	.10												.18	.28			.87							3.66	
Chambersburg	Potomac			T.	.58	1.52	.74	.16	.34				.02							.26	T.	1.08	.30	.12	.05							5.17	
Clearfield	W. Br. Susq.				.93		.53	.29	.02				.03							.12	.45									.28		2.92	
Coatesville	Lower Del.				.48	.08		.53	.05											.22		1.54	.03	1.05								3.98	
Colebrook	Schuylkill			T.	.06	.74	.12	.03	.28	.09	.01		.21	.10						T.	.08	.06	1.80	.06	.61	.05			.02				4.32
Conshohocken	Lower Susq.				.02			.78	.06											.20		1.80	.20	.71								3.77	
Cresson	Juniata				.74		.90		.47	.02										.27		.28			.83							3.51	
Doylestown	Lower Del.				.01			1.04	.01					.32						.27		2.62	T.	.42								4.69	
Driftwood	W. Br. Susq.																																
Emporium	W. Br. Susq.																																
Ephrata	Lower Susq.							.39	.06				.49							.10		1.50		1.35								3.89	
Everett	Juniata				.70			.60												.23	1.45				.16							3.14	
Forest City	N. Br. Susq.			.61		.11		1.11					.14						.09			.79		.49	.30							3.99	
Freeland	Lehigh			.06			.52	T.	.40	.50			.22							.18	.04	.72	.14	.20	.22	.01		.04		.04		3.29	
George School	Lower Del.				T.			.61	.03		.01		1.35							.38		2.22	.15	.52								5.27	
Gettysburg	Potomac				.15	1.20	.77	.17	.20	.14				.17						.21		.78	.03	.37	1.08							5.27	
Girardville	Susquehanna			.02		.12	.02	T.	1.04				.03							.28	.44	.78	.17	.58			.04					3.57	
Gordon	Lower Susq.				.05	.20			.61				.05							.25	.17	.50	.36	1.32								3.51	
Gouldsboro	Lehigh		.16		T.		.20	.12	.22						.14							.58	.06	3.02		.04			.56			5.10	
Graterford	Schuylkill					.09			.66	.08				.85						.17		.06	.38	.96								3.25	
Hamburg	Schuylkill				.32	.09		.08					.21							.21	2.16	1.30		1.35								6.72	
Hauover	Lower Susq.				.03	.55	1.02	.27	.31	.05				.32						.32		2.56		.33	.44							5.88	
Harrisburg	do.			.04		1.19	.09	.21	.07	.02			.08							.10	.65	.85	.03	.73								4.06	
Hawley	Upper Del.			.32	T.		.17	T.	.87				.10									.42	1.06	.38			.02		.60	T.		4.36	
Holtwood	Lower Susq.					.12		.08	.09											.37		1.21	.28	.23	.05							2.45	
Huntingdon	Juniata		.08		T.		1.20	.02	.04	.23	.02		T.							.06	.15	.17		.34								2.31	
Jersey Shore	W. Br. Susq.				T.		1.05	.05	.45				T.							.14	.07	.14	.80	1.17						.05		3.92	
Kennett Square	Delaware																																
Lancaster	Lower Susq.				.13	.26	.13		.42	.19				.11						.44		1.62	.01	.15								3.46	
Lansford	Lehigh																																
Lawrenceville	N. Br. Susq.			.10	.55	.35		.30					.05								.35	.35								.10	.52	2.67	
Lebanon	Lower Susq.			.09		.87	.10	.20	.06	.01										.04		1.11	.02	.17	1.00							3.91	
Lewisburg	W. Br. Susq.		.01	T.	.02	.41		T.	.51											.25	.08	.85	.34	.23	.01							2.71	
Lloyd	W. Br. Susq.				.09	1.00			.35												.32	.08		.21	.14							2.19	
Lock Haven	W. Br. Susq.			.03	.01	1.24		.51													.16	.20	.04		.02							2.21	
Lykens	Susquehanna				.18	.51	.50	.14	.62											.13	.39	.52	.56	1.41	.01							4.97	
Mareus Hook	Lower Del.				.45			1.55	.05				.03							.25		.50	2.16	.55								5.54	
Mauch Chunk	Lehigh				.05	.10	.17		.65											.14	.38	.89	1.05	.42								3.85	
Millintown	Juniata			.02	.04	1.10		.01	.46				.04							.09	.08	.27	.55	.34	.32							3.26	
Montrose	N. Br. Susq.		.75		.21			.08	.40												.40	1.10		.20								3.83	
Mount Pocono	Upper Del.				.20	.10	.30		.90				.20							.06		.40	1.55	2.10	1.16	.18		.30		.45	.20	.04	7.70
Mount Union	Juniata			.28		1.81	T.	T.	.38											.13		.51		.56								3.67	
Muncy Valley	W. Br. Susq.				.10	1.12		.05	.47											.16	.19	.44	.59	.22							.56	3.90	
Narberth	Lower Del.				.02	.01		T.	.97	.05	T.			.01						.44	T.	1.34	.67	.37								3.88	
Neshaminy	Lower Del.								1.10				.17							.23		1.35	.57	.37	.70							4.12	
Palmerton	Lehigh		T.	T.	.09	.11		.56					.21	.02						.08	1.20	.27	.06	.33			T.					2.93	
Philadelphia (a)	Lower Del.			.07				1.26	.01				.01	.02						.39	T.	.61	.87	.40								3.64	
Philadelphia (d)	do.			.10				T.	1.20	.50										.32		.38	1.52	.14	.57								

Daily Precipitation for September, 1923. - Continued from page 35.

Stations.	Drainage Basin.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Franklin|||	Allegheny	.03			.15		.05	.02	.10	.15										.35	.55	1.12							.54				3.06				
Freeport||	Allegheny			.20	.19	.04		.46	.06				T.							.36	.36	.38			.60								2.65				
Greensburg	Youghiogheny		.57		.88	.22	.15	.14	.02				.02	T.						.42	.39	.10		.07									3.12				
Greenville	Beaver		.94		.30	.05	.11	.44	.11											T.													3.88				
Grove City	Beaver	.23		T.	.03	T.	.10	.08	.10				.03							.03	1.42	1.10											3.27				
Herr's Isl. Dam|||	Ohio			.48	.48	.14	.12	.11	T.	T.				T.						.04	.18	.33	T.										1.88				
Indiana	Conemaugh		.29		1.41	.25	.02	.08												.45	.15	.23		.05	.05								2.98				
Ingram	Ohio		.40		.22	.15	.02	.10					.01							T.	.15	.83	T.							.62			1.90				
Irwin	Youghiogheny		.43	.82	.18	.04	.26	.01					.08							T.	.33	.37	.03		.06						.30		4.91				
Johnstown	Conemaugh	T.	.04		1.18	T.	1.79	.62	.01				.04							T.	.52	.29	.07		.08				.06				4.70				
Ketner	Allegheny		.15	.19	.98		.08	.60	.08				.08							.03	.26	.47	.72	.03									3.59				
Lincsville||	Beaver			.08	.18	T.	.45	.24	.13	T.	T.	.01	T.					T.		.31	.24	.83	T.	.02	T.				.08				2.57				
Lock No. 4 |||	Monongahela			.78	.40	.20	.07	.14		.03				.03						.33	.04	.32											2.34				
Lycippus	Conemaugh		.23		.34	.09		.45	.08				T.							.49	.19	.02		.04									1.88				
Martin	Monongahela			.04	T.	.96		.56						.02						.20	.02	.26											2.06				
New Castle|||	Beaver					.49	.12	.10				.05								.17	.64	1.06		.23									2.86				
Newell	Monongahela		.26	.01	.30	.61	.16	.17					.01	.01						.06	.16	.16											1.91				
Parkers Landing|||	Allegheny			T.	T.			.16	.05					T.						.15	.12	.88	T.		.18								1.54				
Pennline|||	Beaver	.19		.08	.32		1.65	.48	.12				.06	.03	.02					.31	.14	.90											4.30				
Pittsburgh**	Ohio		.53		.33	.17	.01	.09	T.					T.						.02	.10	.37	T.		T.								1.62				
Ridgway	Allegheny			.42		.51		.08													.72	.54											2.27				
Saltsburg|||	Conemaugh		.46	T.	2.18	.03	.50	.15	.05				.02							.48	.02	.33		.77									5.15				
Saegertown	Allegheny	.30		.22	.43	.22	.10	.62		.06			.05							.05	.37	.70		.10				.07					3.29				
Sharon|||	Beaver			.15	.50	T.	.02	.22	.17				T.	.05						.14	.82	.86							.06				2.99				
Somerset	Youghiogheny			.53		.16	.33	T.		.30	.05									.48	.26	.10			.05								2.26				
Springdale|||	Allegheny			.10	1.40	.03	.18	.01												.30	.30	.28		.64							.03		3.27				
Stoyestown	Conemaugh			.02	.46	.05		1.07					.04	.07						.01	.30	.15	.07		.60								2.84				
Summit|||	Beaver		.57		.70			.18	.10											.28			1.21	.08									3.39				
Tionesta	Allegheny		.03		.76	.80	.03	.66	T.				T.							T.	.36	.18	.04							.27			2.86				
Uniontown	Monongahela		.35	.03	.68	.12	.10	.17					.03								.31	.35	.11		.51								2.83				
Unity Reservoir||	Youghiogheny		.40		.05		.02	.40	.02												.35	.58								.07			2.00				
Vandergrift	Conemaugh																																				
Warren	Allegheny		.43		.30			.20	.08	.05			.02							.15	.90	.71	.21						.20	.04			2.59				
Washington	Ohio		.50		.86	.02	.04	.21	.01				.04							.12	.08	.76											2.64				
Waynesburg|||	Monongahela		.15	.41	.54	1.34	T.	.63	.01				.03							T.	.38	.10	.07										3.65				
Westford|||	Beaver			.30	.28	.05	.74	.28													.36	1.05			.05					.11	.31		3.53				
West Newton|||	Youghiogheny			.87	.20	.41	.26	.12						.02							.41	.05	.34										2.68				
Lake Drainage.																																					
Erie***	Lake Erie	T.		.01		.18	.33	.43	.36	.50				.04		.49	.26			.03	.19	.68	T.	.01	T.								3.52				
West Bingham	Genesee		.89		.85	T.	.07	.67					.03								.30	.06		T.					.20	.05			3.12				

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. ‡ Incomplete or missing. †† Post Office address:—Greensburg

Daily Temperatures for September, 1923.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
Allentown.....	Maximum ...	87	85	86	88	76	76	81	80	81	72	75	81	76	66	64	69	71	79	81	73	75	77	72	81	81	76	76	77	81	65	.....	76.9
	Minimum	60	63	68	68	62	63	62	53	51	44	48	54	52	41	39	38	39	43	60	60	64	66	65	57	57	60	61	62	51	48	.....	55.3
Altoona.....	Maximum	84	80	81	82	70	66	70	70	69	59	72	71	69	59	56	64	68	72	76	69	79	75	80	82	77	79	77	83	79	72	.....	73.0
	Minimum	60	54	53	64	60	48	52	53	48	38	37	38	37	35	36	34	35	41	62	57	62	57	60	55	61	59	64	54	60	39	.....	50.4
Catawissa	Maximum	88	87	87	89	78	78	77	75	75	70	77	82	76	68	70	69	72	78	78	73	77	76	74	79	83	82	76	80	82	68	.....	77.3
	Minimum	54	54	62	65	66	61	61	69	49	48	40	46	50	42	37	34	32	36	57	57	64	60	64	61	57	56	64	57	60	44	.....	53.6
Chambersburg.....	Maximum	83	82	84	84	80	72	75	79	77	72	74	80	75	67	61	67	71	73	80	75	81	76	84	81	82	81	78	81	81	74	.....	77.0
	Minimum	58	55	55	65	68	63	64	67	51	48	46	52	51	46	41	36	38	41	61	64	65	58	66	58	58	59	58	56	49	.....	55.1	
Emporium.....	Maximum	83	82	81	82	72	75	76	73	72	64	72	70	64	56	58	62	66	75	71	69	76	71	78								.....	
	Minimum	57	59	52	64	56	66	67	57	47	45	42	48	42	34	33	36	31	36	59	52	64	58	58								.....	
Erie.....	Maximum	82	86	77	72	76	81	83	74	65	62	71	65	62	54	57	61	68	78	65	74	72	68	72	71	74	82	85	78	65	59	.....	71.3
	Minimum	68	69	70	65	64	65	69	61	57	52	48	58	49	46	45	41	46	55	57	54	61	60	61	60	61	65	68	65	59	52	.....	58.5
Grove City.....	Maximum	85	84	75	85	81	82	81	80	75	70	76	72	66	63	62	63	75	74	69	69	78	75	78	83	84	86	85	82	77	65	.....	76.0
	Minimum	54	63	60	65	63	56	66	62	55	42	40	50	47	31	30	34	39	46	57	54	64	54	60	59	50	56	63	59	60	42	.....	52.7
Harrisburg.....	Maximum	83	83	82	87	73	73	77	78	77	68	73	80	74	63	61	64	69	72	80	75	76	76	79	80	83	80	77	78	80	66	.....	75.6
	Minimum	66	62	66	70	65	62	63	63	58	54	48	58	61	49	45	43	42	41	61	66	66	65	64	60	62	59	66	62	62	52	.....	58.8
Holtwood.....	Maximum	84	88	86	84	75	79	81	75	75	79	82	79	72	77	75	70	72	79	70	72	79	73	72	77	77	81	84	75	79	77	66	78.0
	Minimum	63	61	68	70	68	66	66	61	55	52	50	55	63	46	46	45	45	46	61	64	64	68	63	63	61	64	61	61	52	52	.....	58.7
Indiana.....	Maximum	87	86	84	84	82	80	81	83	74	72	73	78	68	68	72	77	78	79	79	78	81	85	84	86	84	83	82	80	80	78	.....	79.4
	Minimum	58	54	60	65	63	60	61	61	49	41	38	41	38	37	34	38	37	43	63	58	62	53	60	52	54	59	61	55	56	39	.....	51.4
Mifflintown.....	Maximum	86	86	86	87	79	73	70	75	74	72	77	80	72	67	62	65	71	74	77	74	80	77	83	81	83	79	79	81	82	73	.....	76.8
	Minimum	64	58	56	65	63	63	66	65	51	50	44	53	52	46	40	38	37	40	62	68	67	60	66	57	61	64	66	58	60	50	.....	56.1
Philadelphia.....	Maximum	83	83	84	85	78	77	81	85	81	74	74	81	78	67	66	68	70	73	82	79	74	73	76	78	84	75	77	79	81	66	.....	76.9
	Minimum	66	66	66	69	67	65	66	69	64	60	56	62	61	55	50	50	53	62	67	69	67	67	67	66	63	63	63	63	63	53	.....	62.2
Pittsburgh.....	Maximum	87	85	75	84	82	83	83	75	70	69	73	71	66	56	61	67	75	75	73	72	77	77	82	81	80	87	85	82	77	66	.....	75.9
	Minimum	64	68	66	66	69	67	69	66	56	50	49	58	51	43	43	42	45	56	64	63	65	58	62	58	62	68	66	60	60	50	.....	58.9
Reading.....	Maximum	85	84	84	86	74	74	82	75	78	72	74	82	75	65	63	67	70	75	80	77	76	70	72	78	84	76	78	76	80	64	.....	76.0
	Minimum	64	61	65	71	66	63	65	65	57	54	48	56	60	47	47	42	46	61	63	67	65	65	64	60	61	65	63	62	56	.....	59.0	
Scranton.....	Maximum	83	85	83	82	74	74	76	75	71	64	72	73	71	60	60	65	67	76	78	72	76	74	68	77	79	80	81	72	72	56	.....	73.2
	Minimum	60	60	59	68	64	61	65	59	53	47	41	48	54	44	37	40	37	37	60	58	67	64	61	61	58	54	63	62	76	.....	73.7	
Somerset.....	Maximum	82	80	81	83	78	76	82	70	68	67	76	76	75	58	59	62	71	75	72	77	77	76	76	82	80	84	86	79	83	77	.....	75.2
	Minimum	50	51	52	60	63	60	63	58	47	41	40	41	45	45	33	31	35	40	60	58	55	50	52	58	61	48	58	56	51	52	.....	80.0
State College.....	Maximum	83	77	81	82	70	71	70	72	70	65	71	74	67	58	56	63	68	70	71	69	77	73	75	74	79	78	75	79	77	66	.....	72.0
	Minimum	53	56	57	63	59	60	63	63	48	46	38	50	47	38	38	33	34	38	59	56	62	53	60	53	55	52	63	56	57	44	.....	73.2
Towanda.....	Maximum	83	82	85	78	72	75	73	72	73	62	73	78	73	61	59	64	67	78	76	67	79	69	73	77	81	80	71	82	72	61	.....	72.1
	Minimum	58	59	60	64	62	63	65	61	49	48	39	46	46	34	31	40	32	34	60	46	65	60	61	59	52	49	63	55	60	43	.....	52.5
Uniontown.....	Maximum	85	85	77	83	78	82	82	63	61	70	65	71	74	70	63	60	67	73	76	76	75	79	77	80	76	72	84	84	78	63	.....	75.5
	Minimum	58	60	58	64	67	62	69	65	58	47	45	50	53	44	43	40	45	50	65	63	65	59	60	58	54	57	59	55	60	47	.....	56.0
Warren.....	Maximum	83	85	81	88	80	85	85	80	73	74	78	68	63	55	63	69	70	80	75	80	80	78	81	83	86	86	82	72	58	.....	77.1	
	Minimum	53	58	60	65	64	65	63	63	52	48	45	39	48	40	37	30	33	31	38	55	52	55	56	53	55	55	61	56	40	.....	50.1	
Wellsboro.....	Maximum	81	81	83	82	69	70	68	72	71	66	75	72	66	58	57	59	67	71	70	75	74	64	75	76	83	73	81	70	60	.....	71.6	
	Minimum	52	51	53	50	54	61	60	58	42	41	35	53	37	28	27	30	26	28	57	44	62	57	55	53	49	46	61	51	54	.....	47.3	
Williamsport.....	Maximum	84	84	84	84	83	74	71	75	75	74	71	76	72	69	64	68	69	72	76	75	75	75	78	84	84	80	76	79	79	79	.....	76.2
	Minimum	60	61	62	66	51	63	66	65	51	51	45	51	49	41	35	38	36	39	60	55	65	60	64	60	54	54	66	50	64	.....	54.5	

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXVIII.

OCTOBER, 1923.

No. 10.

GENERAL SUMMARY.

So far during the year there have been only two months with the average precipitation for the State above normal, January and September. The September rainfall was sufficient to put the soil in good condition for fall seeding and the first half of the month of October was almost rainless, affording an unusually extended period of fine weather for farm operations and all kinds of outdoor work. But this condition really continued too long. Light showers occurred extensively about the 15th and 19th, but they were not quite sufficient to keep the soil in good condition or to maintain a satisfactory water supply. There was no good, soaking general rain until the 24th, practically a whole month after the last heavy rainfall in September.

Crops were not much injured by early frosts. There were a few instances of local frost injury in September, but killing frosts did not occur extensively until the period of October 5-7. At that time frosts extended southward over most of the State, the temperature reaching 27° at Coatesville, Chester County, on the morning of the 7th.

TEMPERATURE.

The average temperature for the State, as determined from the records of 81 stations, was 51.0°, which is 1.2° below the October normal. The highest monthly mean temperature was 57.2° at Philadelphia, and the lowest, was 41.8° at West Bingham. The extremes for the State were 87° at Bradys Bend on the 5th and 12° at West Bingham on the 22d. In the southeastern section of the State there was a period of 11 days beginning with the 19th during which the daily mean temperatures were from 4° to 10° above normal. However, a good many stations in other parts of the State had their lowest temperatures within this same period.

PRECIPITATION.

The average precipitation for the State, as determined from the records of 127 stations, was 2.38 inches, which is 0.72 inch less than the October normal. This average was not so low as that for October in either 1920 or 1921. The greatest total precipitation at any station was 6.01 inches at Mount Pocono, and the least was 0.90 inch at Herrs Island Dam. The greatest 24-hour rainfall was 3.25 inches at Mount Pocono on the 24th. This is not a remarkable amount for a 24-hour period, but the number of stations recording amounts in excess of 2.50 inches during the same storm was quite unusual. This storm was an unusually disagreeable one throughout the eastern half of the State, where it rained hard throughout the day with strong northeast winds. In the westernmost counties the rainfall of the 24th was not far from half an inch, while in the eastern part of the State it was about five times as great. Nearly two inches of snow fell at Erie, but elsewhere there were only scattered flurries of snow, the amounts being too small to measure.

G. W. M.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.		
				a. m.	p. m.		Average.	*Highest.	Direction.
Erie.....	108.9	343.1	32	76	67	9,539	12.6	42	s.
Harrisburg.....	228.8	345.2	66	75	66	4,054	10.2	38	ne.
Philadelphia.....	226.3	345.2	66	70	62	7,598	10.2	44	ne.
Pittsburgh.....	214.1	344.1	62	61	62	6,880	9.2	38	nw.
Reading.....	196.0	345.0	57	83	80	2,653	3.6	24	e.
Scranton.....				90	71	4,349	15.8	31	ne.

* For any five-minute period.

COMPARATIVE DATA FOR OCTOBER.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	46.3	74	19	4.02	9.18	2.04	9	6	16
1889.....	47.3	83	13	3.85	8.61	1.88	8	9	14
1890.....	50.9	91	21	5.87	8.41	4.03	6	9	17
1891.....	50.6	91	15	3.06	4.46	0.84	11	9	11
1892.....	50.8	83	16	0.72	2.93	0.00	13	11	7
1893.....	53.0	91	17	3.26	6.58	1.18	14	8	9
1894.....	53.6	88	24	4.26	7.66	0.65	12	8	11
1895.....	47.3	76	17	1.99	4.63	0.45	17	8	6
1896.....	48.9	86	18	3.19	5.70	0.94	11	8	12
1897.....	54.2	95	16	1.32	5.93	T.	14	8	9
1898.....	53.8	92	20	5.20	8.62	2.36	11	7	13
1899.....	54.6	94	15	1.55	3.81	0.53	13	8	10
1900.....	58.6	95	19	2.74	5.10	0.80	11	9	11
1901.....	52.2	83	20	1.23	3.35	0.23	16	10	5
1902.....	53.1	89	19	4.64	8.12	1.65	12	9	10
1903.....	53.4	91	20	4.64	10.53	2.07	12	8	11
1904.....	50.6	91	12	2.87	7.11	1.26	15	8	8
1905.....	53.2	90	16	4.23	7.06	2.18	14	7	10
1906.....	52.0	87	14	4.46	8.39	1.97	7	7	17
1907.....	48.2	87	13	3.16	5.64	1.01	16	8	7
1908.....	54.6	93	19	1.95	5.48	0.08	16	7	8
1909.....	48.4	87	15	2.27	4.60	0.70	13	7	11
1910.....	55.6	91	14	1.91	5.23	0.62	16	8	7
1911.....	52.3	83	18	4.83	9.23	2.59	11	7	13
1912.....	54.2	90	23	2.74	5.27	0.90	15	7	9
1913.....	54.9	88	16	5.44	9.62	3.15	10	6	15
1914.....	56.4	91	11	2.35	4.37	0.89	11	9	11
1915.....	54.2	85	17	2.65	5.33	1.00	15	7	9
1916.....	52.1	92	16	2.25	4.45	0.76	18	7	6
1917.....	47.2	84	12	6.38	9.80	3.33	10	10	11
1918.....	55.5	85	19	3.17	2.20	0.24	15	8	8
1919.....	57.5	92	21	4.77	8.04	2.28	9	8	14
1920.....	57.5	88	22	1.67	4.67	0.50	19	7	5
1921.....	52.6	84	3	2.16	6.55	0.40	17	7	7
1922.....	54.8	94	12	2.51	5.60	0.65	18	6	7
1923.....	51.0	87	12	2.38	6.01	0.90	15	8	8

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	2.2	4.3	25	1.5	16	18
Phillipsburg.....	Delaware.....	1.1	4.6	26	0.1	23	22
Mauch Chunk.....	Lehigh.....	3.6	5.1	25	3.4	1	12
Wilkes-Barre.....	Susquehanna.....	2.9	6.7	26	1.9	20	20
Williamsport.....	Susquehanna.....	0.2	1.6	25	0.0	11	20
Harrisburg.....	Susquehanna.....	3.5	4.6	26	3.1	22	17
Freeport.....	Allegheny.....	0.7	0.9	1	0.5	16	22
West Newton.....	Youghiogheny.....	-0.1	0.1	29	-0.2	7	20
Lock No. 4.....	Monongahela.....	12.6	12.9	1	12.5	7	31
Pittsburgh.....	Ohio.....	6.6	6.9	1	6.5	8	22
Beaver Dam.....	Ohio.....	7.9	8.5	28	7.1	27	30

Climatological Data for October, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	11	51.8	.....	72	30	30	31	33	4.57	+1.16	2.92	0	12	11	15	5	w.	John A. Frick.
Altoona.....	Blair.....	1,615	36	50.4	-1.5	81	13	28	7	38	1.26	-1.23	0.53	0	11	16	9	6	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	295	39	.....	.....	.....	.....	33	7	34	4.13	+0.90	2.43	0	8	3	24	4	nw.	R. H. Brennecke, Jr.
Biglerville.....	Adams.....	652	1	52.9	.....	77	11	31	27	41	1.89	.....	1.37	0	6	14	10	7	n.	R. C. Walton.
Bustleton.....	Philadelphia.....	125	4	55.0	.....	77	14	31	28	32	4.22	.....	1.85	0	7	17	3	11	n.	Experiment Station
Carlisle.....	Cumberland.....	467	56	53.4	+1.1	79	11	32	7	42	2.27	-0.99	1.82	0	7	20	3	8	ne.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	26	51.6	-2.0	76	13	27	7	43	3.28	+0.18	1.50	0	6	19	5	7	nw.	H. H. Yetter.
Center Hall.....	Center.....	1,272	27	52.6	+1.2	80	14	26	9	41	1.32	-1.73	0.48	0	7	22	2	7	ne.	S. W. Smith.
Chambersburg.....	Franklin.....	580	23	52.3	-0.5	77	14	28	28	42	1.64	-1.56	0.64	0	8	18	6	7	ne.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	13	50.3	-2.7	86	15	22	7	51	1.32	-2.00	0.42	T.	9	17	7	7	nw.	E. W. Hess.
Coatesville.....	Chester.....	380	35	52.0	-2.3	77	14	26	28	38	4.11	+0.59	1.83	0	8	14	12	5	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	13	52.0	.....	74	14	29	7	36	4.01	+1.04	1.83	0	12	17	7	7	nw.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	35	.....	.....	.....	.....	.....	.....	.....	1.12	-2.18	0.30	T.	7	.....	.....	.....	.....	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	22	53.4	-1.7	76	14	30	7	36	3.16	-0.01	1.82	0	5	17	5	9	n	E. K. Hershey.
Everett.....	Bedford.....	1,040	25	49.8	-2.3	85	14	21	22	41	1.19	-1.66	0.52	0	4	.....	.....	.....	n.	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,970	8	44.8	.....	72	14	24	27	34	3.29	.....	2.40	T.	11	15	6	10	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	16	54.1	-0.8	78	14	29	28	35	4.01	+0.76	1.92	0	8	18	8	5	nw.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	600	49	53.6	+1.4	79	11	31	28	42	1.87	-1.33	0.98	0	8	18	6	7	w.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	19	49.4	-1.3	78	14	22	7	37	3.37	-1.01	2.30	0	8	17	4	10	n.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	535	30	51.4	-2.5	75	13	28	7	38	4.09	+0.03	2.30	0	6	20	6	5	w.	State Sanatorium.
Hanover.....	York.....	600	19	53.8	-2.3	76	14	33	27	34	2.09	-0.77	0.94	0	10	21	7	3	n.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	53	54.0	0.0	78	11	36	31	33	2.20	-0.75	1.75	0	5	14	8	9	nw.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	4	48.6	.....	77	14	22	28	47	2.75	.....	1.85	0	7	.....	.....	.....	.....	J. S. Pennell.
Huntingdon.....	Huntingdon.....	650	35	50.5	-2.0	81	13	25	7	42	1.19	-1.82	0.61	0	8	17	6	8	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	51	55.0	+0.4	80	14	30	28	37	3.76	+0.37	2.35	0	8	21	7	3	nw.	W. P. Mercer.
Lancaster.....	Lancaster.....	255	35	53.4	0.0	79	14	28	7	45	4.14	+1.06	2.62	0	6	23	5	3	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	25	48.6	-1.9	83	13	21	21	48	1.90	-0.86	1.30	0	5	16	6	9	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	82	.....	.....	77	14	27	28	27	3.68	+0.16	2.91	0	7	17	10	4	nw.	S. B. Benzing.
Lewisburg.....	Union.....	450	48	51.8	+1.6	75	3	37	7	44	2.89	-0.35	2.21	0	9	11	10	10	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	616	34	.....	.....	73	12	28	22	38	2.16	-1.09	1.30	0	9	20	1	10	se.	R. Scott Kift, C. E.
Lykens.....	Dauphin.....	680	8	52.0	.....	80	14	24	7	46	2.97	.....	2.43	0	7	20	5	6	nw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	3	54.8	.....	80	14	32	28	32	3.72	.....	.....	0	8	.....	.....	.....	nw.	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	33	52.0	-0.3	79	14	27	7	48	3.98	+0.22	2.42	0	8	15	7	9	w.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	19	52.8	+0.4	76	18	28	7	39	1.84	-1.40	1.18	0	8	15	3	13	nw.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	20	47.3	-1.7	74	18	26	26	34	3.95	+0.43	2.65	0	9	19	3	9	w.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,658	20	50.2	+2.8	77	19	25	7	30	6.01	+0.99	3.25	0	6	14	11	6	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	11	49.0	.....	73	18	25	7	42	4.08	+0.72	2.73	0	9	13	9	9	w.	A. H. Boatman.
Narberth.....	Montgomery.....	300	4	54.7	.....	76	14	34	7	27	4.07	.....	1.90	0	10	17	6	8	nw.	Charles Decker.
Neshaminy Falls II.....	Bucks.....	60	34	53.4	.....	78	14	28	28	35	4.05	.....	2.50	0	8	20	4	7	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	6	51.3	.....	79	14	25	7	43	3.21	.....	1.11	0	7	15	11	5	ne.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	52	57.2	-0.6	77	14	40	31	23	3.77	+0.67	2.90	0	8	14	10	7	n.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	7	56.4	.....	77	14	37	31	29	3.09	.....	2.17	0	5	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	12	52.8	.....	76	14	30	28	32	4.02	.....	2.30	0	7	21	8	2	n.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	38	50.4	-1.7	78	14	27	8	43	4.24	+0.87	2.11	0	8	11	13	7	nw.	John E. Benner.
Reading.....	Berks.....	325	53	54.5	-0.2	79	14	35	28	34	3.61	+0.35	2.85	0	7	15	10	6	n.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	28	51.6	+0.2	77	13	33	7	35	2.42	-0.49	1.69	T.	9	10	10	11	n.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	33	52.2	-0.4	74	11	26	8	42	2.98	-0.56	2.50	0	8	17	10	4	w.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	27	54.2	.....	69	2	35	7	25	3.70	+0.36	2.24	0	8	22	5	4	nw.	W. S. Guiles.
State College.....	Center.....	1,217	38	48.6	-2.4	78	13	27	7	35	1.60	-1.29	0.38	0	6	16	9	6	w.	C. A. Kern.
Towanda.....	Bradford.....	754	28	49.4	-1.4	80	13	27	7	44	3.39	+0.29	2.62	T.	8	11	7	13	e.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	57	45.9	-3.2	78	13	16	22	49	2.04	-1.16	1.78	T.	3	20	5	6	nw.	George W. Hill.
West Chester.....	Chester.....	455	85	53.6	-0.9	74	14	35	7	29	2.97	-0.77	1.81	0	8	18	7	6	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	36	51.8	-0.8	74	11	30	7	39	2.93	-0.44	2.20	0	5	15	6	10	nw.	Jacob April.
York.....	York.....	400	35	53.0	-0.6	82	14	28	21	38	2.95	+0.07	1.89	0	7	19	5	7	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam II.....	Beaver.....	700	30	52.1	.....	83	13	30	22	40	1.15	-1.36	0.36	0	8	11	7	13	.....	U. S. Engineer.
Bradford.....	McKean.....	1,427	8	45.9	.....	80	13	18	7	50	1.48	.....	0.55	T.	11	14	7	10	sw.	City Engineer.
Bradys Bend II.....	Armstrong.....	990	5	48.0	.....	87	5	17	7	66	1.55	.....	0.70	T.	6	19	4	8	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	32	45.2	-5.2	81	13	19	22	49	1.41	-1.56	0.54	T.	8	20	4	7	.....	John Fawcett.
Claysville.....	Washington.....	1,150	19	50.9	-2.8	85	13	24	22	45	1.27	-2.05	0.47	0	8	17	2	12	s.	J. L. Melvin.
Corry.....	Erie.....	1,430	11	48.0	.....	80	13	23	8	46	1.64	.....	0.44	0.2	11	12	10	9	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	26	51.0	-3.4	83	13	24	7	45	1.41	-1.84	0.56	0	9	13	9	9	e.	Wm. A. Huff, Jr.
Ebensburg.....	Cambria.....	2,000	5	45.8	.....	81	13	17	7	42	1.69	.....	0.43	0	10					

Daily Precipitation for October, 1923.

Stations	Drainage Basin.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh											.08	.01	T.	.01	.05	T.	T.		.05	.46			.05	2.92	.27	T.			.04	.24	.39	4.57	
Altoona	Juniata										T.					.17	.03			.01	.05			.01	.53	.09	.02		T.	.05	.17	.13	1.26	
Ansonia	W. Br. Susq.				.03							T.				.06					.04				1.36	.22	T.				.07	.11	.20	1.91
Bethlehem	Lehigh										.07									.44	.17			.47	2.43						.07	.11	.37	4.13
Biglerville	Susquehanna																.05			.28				.10	1.37	.07				T.	.05	.07	1.89	
Bloersville	Lower Susq.															.38				.38				1.10		T.				T.	.12		1.60	
Bustleton	Lower Del.											T.				.07				.63	.02			1.07	1.85						.05	.53	4.22	
Carlisle	Lower Susq.				T.						T.					.29	.04			.29	.04			T.	1.82	.02			.03	.05	.02		2.27	
Catawissa	N. Br. Susq.				T.						.01					.12				.14				1.42	1.50	T.				T.	.09		3.28	
Center Hall	Susquehanna										.02					.38					.18			.12	.48	.02					.12		1.32	
Chambersburg	Potomac										T.					.05	T.			.34	.09			.64	.32					.14	.03	.03	1.64	
Clearfield	W. Br. Susq.										T.					.09				.20				.03	.39	.12	.02			.03	.04	.40	T.	1.32
Coatesville	Lower Del.										.05					.12				.40				.90	1.83					.04	.55	.22	4.11	
Colebrook	Lower Susq.										.07	.01		.01		.01				.39	.06			1.18	1.83	T.			.02	.05	.33	.05	4.01	
Conshohocken	Schuylkill										.05		T.		.01	.06		T.		.33				1.97	.44					.03		.60	3.49	
Cresson	Juniata															.30			.04		.02				.66			.17			.08	.32	1.59	
Doylestown	Lower Del.											.04				.09				.45				.91	1.98				.05				3.52	
Driftwood	W. Br. Susq.										*					.12				.21				.11	.25	.13			T.	T.	.30	T.	1.12	
Emporium	W. Br. Susq.															.12				.36				.44	1.82				T.	T.	.49		3.16	
Ephrata	Lower Susq.															.05		.20			.45			.52					.02				1.19	
Everett	Juniata																				.44				1.87	.05	.07				.10	.35	3.00	
Forest City	N. Br. Susq.										.12					T.			T.		.44				.24	.30	.04			.02		.10	3.29	
Freeland	Lehigh	T.										.06		.03		.02				.08	.22			.57	1.92					.02	.02	.10	4.01	
George School	Lower Del.											.03				.05				.44	.23			.25	.98					.03		.74	4.01	
Gettysburg	Potomac															.03	.03			.35				.25	.98					.05	.03	.15	1.87	
Girardville	Susquehanna										.01				.02					.52				1.41	1.20	.01	.02			.02	.07		3.31	
Gordon	Lower Susq.															.13				.18	.14			.40	2.30	.10	.02		T.		T.	.10	3.37	
Gouldsboro	Lehigh					.05						.18								.23	.16				.24	T.	.28				.24		3.18	
Graterford	Schuylkill										.02								.13	.35				1.22	.81				.03	.07		.09	2.72	
Hamburg	Schuylkill															.22				.72	.20			.25	2.30							.40	4.09	
Hanover	Lower Susq.											.01								.30	.01			.22	.94	.04			.01	.03	.25	.28	2.09	
Harrisburg	do.										T.					T.	T.			.33				.92	.87				.04	.04	T.		2.20	
Hawley	Upper Del.				.04							.11				.02					.05				1.85	.24	T.					.44	2.75	
Holtwood	Lower Susq.															.10				T.	.24				3.08	.11						.77	4.30	
Huntingdon	Juniata															.23	T.				.07	.13			T.	.61	.03			.03	.04	.05	1.19	
Jersey Shore	W. Br. Susq.															.05				.40	.02				4.22	2.35				.01		.46	3.76	
Kennett Square	Delaware											.05				.05				.30					.57	2.62					.05		.48	4.14
Lancaster	Lower Susq.															.12				.40														
Lansford	Lehigh											.02				.05				.06	.54				2.65	.37					.01	.08	3.78	
Lawrenceville	N. Br. Susq.				.05											.20				.05				T.	1.30	T.					.30		1.90	
Lebanon	Lower Susq.										.06				.02					.47				2.91	.04				.05		.13		3.68	
Lewisburg	W. Br. Susq.				.02							T.				.13				.12	.13				.09	2.21				.01	.12	.06	2.89	
Lloyd	W. Br. Susq.															.14					.18				1.30				.04		.30	.04	2.00	
Lock Haven	W. Br. Susq.				.04										.28					.07	.18				1.30	.02				.01	.18	.08	2.16	
Lykens	Susquehanna											T.				T.				.15	.13				1.72	.43			.06	T.	.01	.02	2.97	
Marcus Hook	Lower Del.										.02					.02				.34				*	2.96					.01	*	.37	3.72	
Mauch Chunk	Lehigh										.08					.06				.65	.02				.63	2.42	.02				.10		3.98	
Millintown	Juniata															.10				.12	.29				.06	1.18			.01	.02	.06		1.84	
Montrose	N. Br. Susq.			.10							.10	.07				.25				.12	.29				2.65	.22			.04		.40		3.95	
Mount Pocono	Upper Del.															.20				.10	.16			1.00	3.25	1.30						6.01		
Mount Union	Juniata										T.	.10				.14				.60								.75		.05		.05	1.59	
Muncy Valley	W. Br. Susq.											.10				.23				.22	.21				1.22	.73	.06	T.		T.	.26	.15	4.08	
Narberth	Lower Del.										.02	.01		T.	T.	.03				.48	.02			1.15	1.90				.03	.01	.42	4.07		
Neshaminy	Lower Del.															.06				.20	.48				1.52	.50	.04			.02		.60	4.05	
Palmerston	Lehigh										.08					.02				.55				.95	1.11					.47		3.21		
Philadelphia (a)	Lower Del.										.02					.01		T.		.28				1.84	1.10					.02	.46	.02	3.77	
Philadelphia (d)	do.											T.				T.	T.			T.	.32													

Daily Precipitation for October, 1923. - Continued from page 39.

Stations.	Drainage Basin.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Franklin|||	Allegheny				T.		.04								.15					.04					.90	.22	.10			.02	.05	.27	1.70				
Freeport||	Allegheny														.22	T				.11					.50	.16	.16		T.	.11	.19	1.11	1.70				
Greensburg	Youghiogheny														.40					.10				.10	.50	.09			.04	.04	.49		1.53				
Greenville	Beaver														.16					.03					.77	.30				.28	.01	1.55	1.89				
Grove City	Beaver				T.										.05		T.								.92	.36	.03		.05	.02	.35	.03	1.89				
Herrs Isl. Dam|||	Ohio																			T.	.03				.51	.10	T.		T.	.01	.10	.15	0.90				
Indiana	Conemaugh														.20					.05	.05				.65	.15			1.30	.10	.23	.10	2.83				
Ingram	Ohio														.17					.02	T.			.05	.63	.05			.02	.10	.14		1.18				
Irwin	Youghiogheny														.26					.12	.05				.71	.40	.10		.04	.05	.18	.10	2.01				
Johnstown	Conemaugh								.01	T.					.08					.06	.01				.08	.44	.13		.01	.04	.40	T.	1.46				
Ketner	Allegheny			.04											.23					.36	.03				.35	.24			.03		.40	.04	1.52				
Linesville||	Beaver			.02	.03							T.			.23					.06					.41	.17	.26				.18	.28	1.64				
Lock No. 4|||	Monongahela														.60					T.	.06				.55	.08			T.	.04	.03	.88	1.74				
Lycippus	Conemaugh														.52					.10				.15	.52	.05			T.	.13	.61	.12	2.20				
Martin	Monongahela														.33					.02	.12				.42	.04			.02	.03		.28	1.26				
New Castle|||	Beaver																			.07				.32	.24	.02			.01		.27		0.96				
Newell	Monongahela														.03	.37			T.	.07					.38	.19			T.	T.	.33		1.87				
Parkers Landing|||	Allegheny				T.							T.	T.			.26					.06				.53	.35	.07		T.	.05	.04	.52	1.62				
Pennline|||	Beaver			.13	.03																.05				.35	.26	.16				.17	.16	1.57				
Pittsburgh***	Ohio														.05	.12				.01	.05				.45	.20	T.		T.	.10	.12		1.05				
Ridgway	Allegheny			.19																.06					.38							.61	1.24				
Saltsburg|||	Conemaugh														.32						.06				.72	.12	.03			.02	.02	.10	.32	1.71			
Saegertown	Allegheny			.22	.05										.10	.13					.05				.65	.26	.07				.63		2.16				
Sharon||	Beaver														.17					T.				.40	.25					.09	.25	1.11	1.83				
Somerset	Youghiogheny														.36					.10				.26	.66	.11					.33		1.83				
Springdale|||	Allegheny														.12					.01	.10				.50	.11	.01			.02	.04	.10	1.21				
Stoyestown	Conemaugh														.35	.02				.05	.01				.04	.65	.12	.05			.02	.12	.06	1.85			
Tionesta	Allegheny																																				
Uniontown	Monongahela														.48					.06					.32	.44	.02			.04	.03	.53	.05	.97			
Unity Reservoir||	Youghiogheny														.44					.08					.25	.52	.06	.03		.05	.06	.49	.12	2.11			
Vandergrift	Conemaugh														.13						.05					.65	.12			.13	.24		1.31	1.83			
Warren	Allegheny			.11	.12										.05	.05				.08					.26	.04	.06				.20	.06	1.06	1.83			
Washington	Ohio																																				
Waynesburg|||	Monongahela														.57					.10					.45	.07				.02	T.	.40		1.6			
Westford|||	Beaver					T.									.22						.05					.60	.25	.24		.28			1.6	1.6			
West Newton|||	Youghiogheny														.40						T.	.10				.41	.07			T.	.09	.04	.32	1.44			
Lake Drainage.																																					
Erie***	Lake Erie				.06	.04									.26					.04					.06	.48	.07			T.	.18	.16	1.3	1.7			
West Bingham	Genesee				T.						T.				.03	.12									T.	1.12	.05	T.	T.		.45	T.	1.7				

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. \$ Incomplete or missing. ||| Post Office address:—Greensburg

Daily Temperatures for October, 1923.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mea	
Allentown.....	Maximum ...	64	69	71	70	60	58	61	65	68	70	68	70	68	78	65	67	70	70	66	65	64	58	47	59	54	53	60	56	64	72	48	63.
	Minimum	47	45	46	37	37	32	33	36	38	40	45	46	47	51	50	38	37	40	48	36	37	39	39	41	43	35	33	35	36	41	30	39.
Altoona.....	Maximum	65	62	66	61	53	55	63	63	67	67	72	77	81	79	68	61	68	69	62	56	59	54	48	45	45	52	59	58	57	69	45	61.
	Minimum	37	38	43	47	30	31	28	31	33	36	47	47	43	50	55	50	46	38	45	42	30	34	36	39	43	32	35	48	43	32	39.	
Catawissa	Maximum	72	66	72	64	63	59	64	67	69	64	74	73	76	76	72	71	75	74	64	64	65	59	57	57	53	54	62	55	62	72	51	65.
	Minimum	46	40	43	44	31	33	27	28	28	28	44	44	45	49	50	45	35	31	44	47	30	28	30	39	42	44	28	28	42	42	37	57.
Chambersburg	Maximum	71	72	71	70	61	59	63	65	67	69	76	74	73	77	75	66	67	73	66	65	62	54	50	54	51	62	59	62	64	68	59	65.
	Minimum	42	39	40	43	33	31	30	30	30	31	40	43	42	46	55	52	42	33	55	48	34	29	37	42	37	40	37	28	36	48	38	39.
Emporium.....	Maximum																																
	Minimum																																
Erie.....	Maximum	56	57	64	58	51	51	54	56	61	63	67	76	79	59	59	78	75	76	71	52	49	47	51	47	50	48	55	55	53	59	38	58.
	Minimum	51	50	49	47	44	44	36	38	42	48	54	52	59	45	38	49	58	53	52	44	43	41	37	41	41	41	37	46	42	37	80	44.
Grove City.....	Maximum	59	58	69	66	63	57	60	60	65	67	69	79	83	62	70	79	74	75	67	56	54	59	48	47	47	46	58	51	56	62	42	61.
	Minimum	40	38	49	45	31	36	25	36	28	32	38	37	41	43	45	41	53	47	45	34	31	26	30	37	42	42	31	37	48	41	30	38.
Harrisburg.....	Maximum	67	71	70	69	57	58	60	60	64	64	78	70	69	72	71	62	67	73	62	62	58	54	48	56	56	56	60	51	63	68	47	62.
	Minimum	52	51	49	51	42	40	37	39	40	41	51	49	54	52	57	51	43	40	51	50	44	40	41	41	44	46	40	38	47	47	36	45.
Holtwood.....	Maximum	64	68	72	73	57	57	59	61	66	63	70	73	68	73	82	68	68	64	63	63	64	61	48	52	55	55	57	57	59	68	53	63.
	Minimum	52	48	64	50	45	39	35	42	42	44	45	50	48	55	59	48	46	52	46	45	43	42	43	44	45	43	37	35	42	46	35	45.
Indiana.....	Maximum	67	68	68	64	56	58	63	64	65	67	67	79	83	71	68	71	73	76	64	58	58	54	48	47	47	50	61	56	54	69	45	62.
	Minimum	34	36	40	42	27	29	27	32	28	29	32	38	42	45	54	52	50	45	53	40	28	27	29	36	39	42	34	31	48	42	32	37.
Mifflintown.....	Maximum	68	73	73	69	59	61	64	66	69	69	75	75	72	71	75	64	70	76	65	62	62	58	49	56	54	59	65	52	62	61	58	64.
	Minimum	48	43	44	43	33	36	28	32	30	33	45	42	47	50	58	53	40	34	45	47	33	34	40	42	44	49	33	32	47	46	37	40.
Philadelphia.....	Maximum	68	71	70	75	61	59	62	63	66	70	66	70	71	77	70	69	67	70	67	66	63	58	50	60	58	56	61	60	67	72	55	65.
	Minimum	50	51	54	53	45	46	43	44	46	51	54	53	55	54	57	54	50	51	55	54	48	43	42	49	44	47	42	43	53	55	40	49.
Pittsburgh.....	Maximum	62	57	68	61	53	54	60	63	65	66	74	79	82	67	67	76	72	75	71	55	58	48	47	45	48	51	56	56	55	68	40	61.
	Minimum	47	42	44	42	38	38	35	40	37	38	49	47	52	54	53	52	57	53	50	44	35	36	33	38	40	45	40	47	48	39	32	43.
Reading.....	Maximum	68	70	69	70	59	58	61	62	66	69	72	70	71	79	69	67	66	74	66	63	63	57	48	58	56	53	59	56	62	70	49	63.
	Minimum	51	49	50	49	41	42	36	39	41	43	52	46	55	49	55	51	42	52	49	42	41	40	45	44	45	38	35	50	49	39	45	
Scranton.....	Maximum	54	57	69	63	56	54	57	59	63	62	66	76	77	76	69	74	75	74	64	63	55	53	46	60	52	49	56	57	62	70	45	61.
	Minimum	46	46	47	44	36	38	33	34	36	38	48	46	46	48	48	44	40	52	43	35	37	40	42	43	40	36	36	47	45	35	41.	
Somerset.....	Maximum	50	62	65	53	52	62	63	64	70	70	76	78	84	78	67	61	67	71	75	54	57	51	50	43	48	62	53	67	68	40	61.	
	Minimum	41	34	40	26	25	23	25	24	28	27	26	27	36	43	52	46	44	41	45	35	24	21	24	27	34	35	40	26	36	48	38	28.
State College.....	Maximum	65	57	65	60	50	55	57	60	63	64	67	71	78	72	65	58	65	68	60	56	56	52	45	54	49	53	60	53	58	62	43	59.
	Minimum	42	38	43	46	30	34	27	30	31	32	46	42	41	45	54	46	43	35	45	38	29	30	32	33	39	42	30	33	43	41	31	37.
Towanda.....	Maximum	58	57	69	61	57	55	56	59	63	59	71	74	80	76	65	70	69	73	73	63	54	51	48	60	51	50	54	56	62	69	47	61.
	Minimum	45	38	42	40	30	34	27	29	29	29	47	41	40	45	44	36	35	29	50	46	27	30	33	38	43	42	27	27	49	46	34	38.
Uniontown.....	Maximum	62	57	68	63	50	50	56	63	61	63	72	79	81	78	66	70	72	70	74	60	55	50	43	41	48	51	50	58	59	57	46	60.
	Minimum	47	41	45	50	32	30	34	29	30	34	40	40	41	50	57	55	55	48	52	41	30	31	30	38	40	45	35	40	50	45	34	44.
Warren.....	Maximum	66	68	70	70	52	55	60	63	64	68	74	80	82	66	71	75	75	76	74	60	51	53	50	50	49	50	64	48	48	63	41	64.
	Minimum	42	36	38	38	27	30	26	28	32	36	40	35	42	40	34	54	41	50	38	28	25	21	44	40	38	32	35	37	40	30	33	34.
Wellsboro.....	Maximum	62	65	68	60	51	53	56	58	62	61	74	77	78	73	65	62	70	74	65	59	52	50	47	54	51	48	58	54	60	67	44	64.
	Minimum	44	35	34	35	25	30	20	21	20	23	40	33	31	39	43	31	30	25	35	38	20	16	27	35	38	37	27	23	44	41	28	34.
Williamsport.....	Maximum	68	66	71	66	65	60	62	63	66	63	74	70	69	69	71	65	68	73	63	63	61	53	50	58	53	53	63	58	63	67	55	64.
	Minimum	50	44	44	45	33	37	30	31	33	35	46	41	45	48	51	46	40	34	46	45	32	31	38	40	45	46	31	31	42	46	38	44.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXVIII. NOVEMBER, 1923. No. 11.

GENERAL SUMMARY.

The temperature was mostly seasonable throughout the month, there being no unusual extremes in either direction. In most places there was a steady, moderate excess during the last ten days which nearly balanced a moderate deficiency that had gradually accumulated up to that time. The rainfall was generally below the normal in the eastern and northern counties, and above the normal in the central and southwestern portions of the State. The heavy rains occurred where the conditions were best during the crop growing season and where the water supply was well up to the normal. There was no alarming water shortage at any place but the streams and ponds were moderately low in the drier sections. The weather conditions were favorable for field work, and at the end of the month corn husking was finished in many places and was nearing completion generally. Many farmers resumed fall plowing when they finished husking. Building construction and road work made good progress. Moderate temperatures were favorable for leaving stock in the pastures the greater part of the time, and there was considerable feed in the southern counties up to the close of the month. The soil was in good condition for a healthy growth of winter wheat and rye, and the grains became well rooted and should be able to withstand the coming winter. No severe or damaging storms were reported. There was little or no snowfall in the eastern half of the State, about one-fourth of the stations reporting traces, but in some of the western counties there was a fall of 2.0 inches or more. However it did not remain long on the ground.

TEMPERATURE.

The mean temperature for the State, as determined by the records of 77 stations, was 40.7°, or 0.2° below the November normal. The highest monthly mean was 46.4° at Philadelphia, and the lowest was 33.8° at Freeland. The highest temperature for the month was 70° at Greensburg on the 3d, and the lowest was 10° at West Bingham on the 2d.

PRECIPITATION.

The average precipitation, from rain and melted snow, as shown by the records of 121 stations, was 2.83 inches, or 0.41 inch more than the November normal. The greatest monthly total was 6.84 inches at Grove City, and the least was 1.55 inches at Ansonia. The greatest 24-hour rainfall was 3.00 inches at Mount Pocono on the 29-30th. The average snowfall for the State was 0.3 inch, but being practically all in the western half of the State it may be considered as an average of 0.6 inch for the western district and none for the eastern portion. The greatest snowfall was 4.0 inches at Elk Lick.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.		
				8 a. m.	8 p. m.		Average.	* Highest.	Direction.
Erie.....	101.0	294.9	34	76	70	10,765	15.0	49	se.
Harrisburg.....	154.2	299.4	52	73	68	4,335	6.0	27	n.
Philadelphia.....	145.1	299.4	48	70	62	7,034	9.8	31	n.
Pittsburgh.....	139.0	297.0	47	78	70	7,909	11.0	40	se.
Reading.....	131.0	299.4	44	87	87	4,173	5.8	24	ne.
Scranton.....	.....	.....	.....	84	74	4,876	6.8	24	sw.

* For any five-minute period.

COMPARATIVE DATA FOR NOVEMBER.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	42.2	79	4	3.37	6.22	1.99	9	7	14
1889.....	41.8	73	10	6.72	10.16	2.72	5	8	17
1890.....	41.8	78	10	1.49	4.29	0.78	9	10	11
1891.....	39.7	76	6	2.65	5.70	1.09	9	8	13
1892.....	39.0	80	10	4.34	7.08	1.61	6	8	16
1893.....	39.2	68	-4	2.93	5.69	1.16	8	11	11
1894.....	38.2	74	6	2.50	3.64	0.74	10	9	12
1895.....	42.9	78	6	2.48	5.73	0.97	10	8	11
1896.....	46.0	83	12	3.55	8.05	0.82	8	9	13
1897.....	41.6	76	2	5.28	7.04	2.37	6	8	16
1898.....	40.0	73	2	4.03	7.34	1.44	8	9	13
1899.....	41.5	72	8	2.66	4.86	0.61	10	8	12
1900.....	43.5	79	7	4.10	6.92	1.67	6	9	15
1901.....	36.0	76	7	2.56	5.00	1.23	7	8	15
1902.....	47.3	78	9	1.53	3.02	0.50	10	8	12
1903.....	36.9	78	0	2.18	5.33	0.88	11	8	11
1904.....	38.8	79	-4	1.14	3.31	0.14	10	9	11
1905.....	39.1	68	5	2.47	3.72	1.08	11	8	11
1906.....	41.5	80	9	1.48	3.08	0.54	12	6	12
1907.....	39.8	70	4	3.60	7.52	1.05	13	8	9
1908.....	41.2	75	-2	0.90	1.97	0.20	12	8	10
1909.....	46.4	80	15	1.40	3.97	0.26	12	8	19
1910.....	36.8	68	9	2.45	5.63	0.33	4	7	10
1911.....	37.8	77	7	2.84	5.68	0.99	7	7	16
1912.....	43.0	81	7	2.17	4.83	0.61	10	8	12
1913.....	43.9	79	10	3.05	6.34	1.43	10	5	15
1914.....	40.6	81	-2	1.76	4.27	0.57	12	9	9
1915.....	42.1	79	13	2.28	5.32	0.22	10	9	11
1916.....	41.3	79	4	2.27	7.97	0.88	13	6	11
1917.....	37.6	69	-5	0.63	1.37	0.12	14	7	9
1918.....	42.1	76	11	2.03	4.07	0.44	12	6	12
1919.....	41.2	76	11	5.35	8.45	1.84	11	7	12
1920.....	40.3	75	5	3.54	6.42	1.85	7	7	16
1921.....	42.3	80	3	5.75	9.14	3.20	5	7	18
1922.....	42.9	73	12	1.21	4.52	0.23	10	7	13
1923.....	40.7	70	10	2.83	6.84	1.55	13	5	13

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	2.7	3.0	1	2.4	23	18
Phillipsburg.....	Delaware.....	1.6	2.5	25	1.1	22	22
Mauch Chunk.....	Lehigh.....	3.5	3.7	1	3.4	19	12
Wilkes-Barre.....	Susquehanna.....	3.6	4.3	11	3.2	23	20
Williamsport.....	Susquehanna.....	0.5	0.8	9	0.3	22	20
Harrisburg.....	Susquehanna.....	3.6	3.8	1	3.5	21	17
Freeport.....	Allegheny.....	1.9	3.5	27	0.6	1	22
West Newton.....	Youghiogheny.....	0.7	2.1	25	0.1	1	20
Lock No. 4.....	Monongahela.....	13.9	18.0	8	12.4	1	31
Pittsburgh.....	Ohio.....	7.3	9.3	30	6.5	16	22
Beaver Dam.....	Ohio.....	8.4	9.5	9	7.2	2	30

Climatological Data for November, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	11	40.6	.....	61	30	23	19	35	2.11	-0.29	0.86	T	10	9	15	6	w.	John A. Frick.
Altoona.....	Blair.....	1,615	36	39.8	-1.0	64	21	20	20	36	3.66	+1.75	1.19	0	14	14	7	9	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	295	39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	nw.	R. H. Brennecke, Jr.
Biglerville.....	Adams.....	652	1	41.2	.....	63	22	21	20	34	1.90	.....	1.02	T	6	13	1	16	nw.	R. C. Walton.
Bustleton.....	Philadelphia.....	125	4	43.2	.....	63	4	20	20	36	2.33	.....	0.89	0	7	11	6	13	s.	Experiment Station
Carlisle.....	Cumberland.....	467	56	41.1	+0.4	60	22	21	29	33	2.33	-0.86	1.11	0	7	13	2	15	se.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	26	41.2	-1.2	62	21	17	20	39	2.07	-0.64	0.98	0	8	15	3	12	nw.	H. H. Yetter.
Center Hall.....	Center.....	1,272	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	23	41.2	-0.2	69	11	20	20	39	2.87	+0.22	1.16	T	10	12	6	12	ne.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	13	40.4	-0.3	65	21	16	20	44	3.99	+1.15	2.04	T	12	12	3	15	ne.	E. W. Hess.
Coatesville.....	Chester.....	380	35	40.2	-2.7	58	5	18	20	33	2.45	-0.74	1.39	0	9	11	9	10	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	13	40.4	.....	58	22	21	2	35	2.29	-0.33	1.22	0	12	13	2	15	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	35	38.4	-0.8	61	21	13	2	38	2.91	+0.20	1.40	T	9	8	4	18	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	22	42.6	+0.2	65	5	21	20	31	2.29	-0.10	1.32	0	8	12	7	11	n.	E. K. Hershey.
Everett.....	Bedford.....	1,040	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,970	8	33.8	.....	52	4	15	9	28	1.91	.....	0.65	0.2	11	9	8	13	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	16	43.1	+0.5	64	22	18	20	39	2.32	-0.39	0.80	0	9	15	5	10	n.	Prof. N. W. Swayne.
Gettysburg.....	Adams.....	600	49	42.6	+1.3	65	22	20	20	35	2.15	-0.49	0.95	0	8	10	11	9	w.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	19	39.0	0.0	57	3	15	20	36	2.67	-0.12	1.42	T	11	12	3	15	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	535	30	38.6	-3.6	60	14	18	20	36	3.28	+0.42	1.71	0	7	13	5	12	w.	State Sanatorium.
Hanover.....	York.....	600	19	43.0	-1.2	61	22	24	2	29	2.88	+0.95	0.95	0	11	16	4	10	w.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	53	42.6	+0.9	59	22	27	20	24	1.95	-0.40	1.03	T	9	12	4	14	nw.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	4	39.2	.....	68	4	12	20	51	2.65	.....	1.20	T	7	12	3	15	nw.	J. S. Pennell.
Huntingdon.....	Huntingdon.....	650	35	40.4	-1.1	63	21	16	20	41	2.75	+0.49	1.28	T	6	11	11	8	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster.....	Lancaster.....	255	35	42.4	-0.7	64	22	19	20	36	2.56	+0.14	1.42	0	6	15	2	13	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	25	38.8	+0.1	62	21	17	2	38	1.65	-0.49	0.67	T	8	6	6	18	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	82	42.2	0.0	62	22	24	2	33	2.85	-0.04	0.72	0	11	12	8	10	nw.	S. B. Benzing.
Lewisburg.....	Union.....	450	48	40.8	+1.7	60	3	19	20	38	2.48	-0.03	1.23	0	11	9	6	15	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	616	34	40.3	-1.6	59	22	20	2	33	2.08	-0.36	0.92	T	6	14	2	14	se	R. Scott Kift, C. E.
Lykens.....	Dauphin.....	680	8	40.6	.....	61	22	16	20	38	3.74	.....	1.19	0	10	14	8	8	nw.	Susquehanna Collieries Co.
Marcus Hook.....	Delaware.....	50	3	44.8	.....	65	30	26	20	31	2.22	.....	0.91	0	6	.....	.....	.....	.....	Gen. Chemical Co.
Mauch Chunk.....	Carbon.....	600	33	41.0	+0.4	66	14	17	20	41	3.60	+0.27	2.14	T	8	14	3	13	w.	R. K. Wintermute.
Mifflintown.....	Junia.....	445	19	42.4	+1.8	62	14	20	29	36	2.45	+0.61	1.20	0	12	13	1	16	nw.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	20	36.6	-0.3	57	4	16	20	30	2.29	-0.11	0.85	T	8	12	3	15	s.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,658	20	41.6	+5.8	60	4	14	20	31	4.38	+1.66	3.00	0	8	14	4	12	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	11	38.8	.....	58	14	18	2	35	3.11	+0.69	1.47	0	9	9	9	12	sw.	A. H. Boatman.
Narberth.....	Montgomery.....	300	4	43.5	.....	63	5	23	20	31	2.78	.....	1.42	T	9	11	5	14	ne.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	34	41.1	.....	63	5	16	20	41	2.05	.....	1.15	0	7	18	5	7	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	6	39.7	.....	61	14	15	20	38	2.71	.....	1.13	T	7	16	7	7	ne.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	52	46.4	+0.7	64	5	31	20	21	1.91	-1.15	0.88	0	9	10	7	13	n.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	7	45.0	.....	63	5	28	20	26	1.86	.....	1.00	0	7	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	12	41.3	.....	61	30	20	29	31	1.98	.....	0.99	0	6	17	10	3	w.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	38	39.8	-1.2	60	4	16	20	41	2.21	-0.95	1.23	T	9	11	7	12	nw.	John E. Benner.
Reading.....	Berks.....	325	53	43.7	+1.2	61	30	26	29	27	2.21	-0.91	1.18	0	10	11	8	11	nw.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	28	41.4	+2.3	62	4	23	20	31	2.20	-0.09	1.18	T	10	7	8	15	s.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	33	40.8	-0.7	57	3	19	20	36	2.40	-0.28	1.38	0	9	14	8	8	w.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	27	42.4	.....	60	30	23	20	24	2.67	-0.21	1.48	0	7	18	6	6	nw.	W. S. Gullis.
State College.....	Center.....	1,217	38	38.5	-1.2	58	21	18	2	30	2.29	-0.01	0.99	T	10	10	9	11	sw.	C. A. Kern.
Towanda.....	Bradford.....	754	28	39.2	-0.1	59	21	18	2	36	1.96	-0.10	0.60	T	10	6	4	20	nw.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	57	36.1	-1.4	58	3	13	2	41	1.63	-1.00	0.90	T	7	10	5	15	sw.	George W. Hill.
West Chester.....	Chester.....	455	85	.....	.....	.....	.....	.....	.....	.....	1.84	-1.79	0.90	0	8	14	7	9	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	36	40.7	-0.1	56	14	23	20	30	2.28	-0.12	0.60	T	11	14	2	14	nw.	Jacob April.
York.....	York.....	400	35	41.8	-0.7	65	21	20	20	37	1.97	-0.58	0.95	0	10	14	5	11	s.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	30	42.8	.....	66	21	22	20	36	3.26	+0.92	0.76	2.7	13	13	1	16	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	8	38.1	.....	61	3	13	2	44	3.14	.....	1.13	2.8	11	10	3	17	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	5	37.4	.....	63	21	12	20	46	3.26	.....	0.99	2.0	10	10	5	15	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	32	36.0	-1.6	60	21	13	20	41	2.85	+0.01	1.15	T	8	18	3	9	.....	John Fawcett.
Claysville.....	Washington.....	1,150	19	41.8	+0.3	65	21	21	20	37	3.42	+1.48	0.80	0.2	14	15	1	14	n.	J. L. Melvin.
Corry.....	Erie.....	1,430	11	39.2	.....	65	14	18	2	42	3.79	.....	1.05	3.5	14	9	3	18	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	26	42.2	+0.3	63	14	19	20	38	3.76	+1.19	1.00	T	14	6	10	14	w.	Wm. A. Huff, Jr.
Ebensburg.....	Cambria.....	2,000	5	37.0	.....	61	21	12	20	39	3.33	.....	1.28	T	10	13	4	13	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,68																		

Daily Precipitation for November, 1923.

Stations	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown	Lehigh					.01	.06	.16					.02				T.	.06	T.	T.	T.		.05	.02	.84				.01		.86	2.16	
Altoona	Juniata				.09	.52	.02	.43	.05									.01	.13	T.	T.		.14	.64	.07		.13	.08	.16	.19	3.66		
Ansonia	W. Br. Susq.	T.				.04	.05	.08	.09	T.			T.					.08	T.	T.			.02		.29		.12			.78	1.55		
Bethlehem	Lehigh																																
Biglerville	Susquehanna				.30			.08	T.				.14					.04					.32								1.02	1.90	
Bloomsburg	Lower Susq.				.37			.26										.45					.50								1.25	2.83	
Bustleton	Lower Del.					.15	.15						.13										.05	.85	.17						.89	2.33	
Carlisle	Lower Susq.					.25	.02	.25				T.	.17				.14						.39	T.			T.			T.	1.11	2.33	
Catawissa	N. Br. Susq.				.14	.02	.57					.08					.11						.17							.11	.87	2.07	
Center Hall	Susquehanna				.04	.14	.22											.13					.12				.01				1.12	1.78	
Chambersburg	Potomac				.02	.47	.04	.28	T.				.05				.03	.04					.75						.03	.16	2.87		
Clearfield	W. Br. Susq.				.13	.60	T.	.13	T.								.18	.02	.03				.40	.03		.24	.07			12.04	3.99		
Coatesville	Lower Del.				.05	.13	.05						.16				.01	.02					.50				.14			1.39	2.45		
Colebrook	Lower Susq.				.03	.16	.07	.19	.02				.13				T.	.06					.01	.34	T.	T.	.05		.01	1.22	2.29		
Conshohocken	Schuylkill				T.	.04	.10									T.		.06					T.	.77			.13		T.	1.17	2.27		
Cresson	Juniata				.30	.57	.50	.07										.18	.03				.20		.90		.26			1.52	4.53		
Doylstown	Lower Del.					.11	.62						.03									.13	.45	.26				.15		1.18	2.93		
Driftwood	W. Br. Susq.																																
Emporium	W. Br. Susq.				.08	.15		.18	T.								.10	.06	T.				T.	.44			.26			.24	1.40	2.91	
Ephrata	Lower Susq.				T.	.12	.09						.24					.10					.02	.29				.11			1.32	2.29	
Everett	Juniata																																
Forest City	N. Br. Susq.						.57	.27					.03										.24		.71		.21			1.52	3.55		
Freeland	Lehigh					.02	.26	.60	.02				.02				.02			.04		T.	.02		.20		.06			.65	1.91		
George School	Lower Del.					.10	.15						.04					.03					.03	.72	.42		.03			.80	2.32		
Gettysburg	Potomac				.26	.07	.06						.14										.03	.62	.05					.95	2.18		
Girardville	Susquehanna				.05	.07	.39	.04				.02	.01			T.	.07					T.	.10	.27		.04			.08	1.21	2.35		
Gordon	Lower Susq.				.06	.06	.36	.11					.04					.02	.07				.10	.38			.05			1.42	2.67		
Gouldsboro	Lehigh					.12	.16	.42					.06							.05	.04	.04	.08		.46	.04		.12		.71	2.30		
Graterford	Schuylkill				T.	.32											.02						.82	.04			.26			.96	2.42		
Hamburg	Schuylkill					.18	.20																.82	.21		.05	.11			1.71	3.28		
Hanover	Lower Susq.				.21	.06	.95	.08					.20					.02					T.	.03	.28	.06			.04	.95	2.88		
Harrisburg	do.				.01	.14	T.	.13	T.				.21				.14						T.	.27			.02			.12	.91	1.95	
Hawley	Upper Del.					.70	.20	.20															.26		.44		.17			.68	2.65		
Holtwood	Lower Susq.				.01	.19	.04	.09					.27	.05	.02								.64					.06			.78	2.15	
Huntingdon	Juniata	T.			.40			T.	T.														.64	.50	T.				.10	1.18	2.75		
Jersey Shore	W. Br. Susq.																																
Kennett Square	Delaware																																
Lancaster	Lower Susq.				.49	.09	.08																.40	.08						1.42	2.56		
Lansford	Lehigh							.11	.24				.05							.01			.03		.50		T.	.10		.72	1.76		
Lawrenceville	N. Br. Susq.	T.				.20	.25	.10				.10					T.	.07	T.				.18	.08		T.	T.			.67	1.65		
Lebanon	Lower Susq.				.02	.17	.17	.10	.06				.21					.28						.35			.05		.72	.72	2.85		
Lewisburg	W. Br. Susq.				.27	.07	.21						.03					.09		.03			.11	.35	.04		.05			1.23	2.48		
Lloyd	W. Br. Susq.				.36			.54	.03									.09					.04	.19			.21			.96	2.42		
Lock Haven	W. Br. Susq.				.42			.40	T.									.04					.23				.07			.92	2.08		
Lykens	Susquehanna				.11	.03	.57						.09	.03				.02	.34				T.	.30			.06	T.	T.	1.19	3.74		
Marcus Hook	Lower Del.					.13	.07						T.	.20									T.	.81			.10			.91	2.22		
Mauch Chunk	Lehigh					.12	.31	T.				.08											.05	.56	.15		.19			2.14	3.60		
Millintown	Juniata				.28	.02	.25						.12					.02	.13				.01	.32	.02		.06		.02	1.20	2.45		
Montrose	N. Br. Susq.				.12			.43	.18									.33						.10	.10		.18			.85	2.29		
Mount Pocono	Upper Del.				.10	.01	.10	.02												T.			.60				.25			3.00	4.38		
Mount Union	Juniata				.38			.54									.10						T.	.65						.90	2.57		
Muncy Valley	W. Br. Susq.				.28	.13	.46	.06	T.			.11						T.					.38	.06		.16				1.47	3.11		
Narberth	Lower Del.				T.	.12	.11	T.					.01					.04					.03	.90	.01		.14			T.	1.42	2.78	
Neshaminy	Lower Del.					.12		.15					.05											.03	1.15		.05			.50	2.05		
Palmerston	Lehigh				T.	.12	.06	T.					T.					T.					.03	.51		.13			.73	1.13	2.71		
Philadelphia (a)	Lower Del.				.01	.15	.13						.01					T.					.01	.88		.01	.03			.68	1.91		
Philadelphia (d)	do.					.09	.07	.10					T.	.05				T.					T.	1.00			.05			.50	1.86		
Phoenixville	Schuylkill				T.	.11	T.	T.					T.					T.	.15				T.	.49	.12		.12			.99	1.98		
Pottstown	do.				T.		.05	.07	T.				T.					T.	.19				T.	.41	.07		.15						

Daily Precipitation for November, 1923.—Continued from page 43.

Stations.	Drainage Basin.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Franklin|||	Allegheny	T.			.04	.36	.03	.07	.32	.02							.02	.10	.02	.05					.14	.30		.14	.55			.94		3.10	
Freeport|||	Allegheny				.05	.43	.34		.11	.12								.07	.11						.28	.21		.07	.43			1.04		4.26	
Greensburg	Youghiogheny				.35	.20		.81	.18	T								.08	.06	T.				.04	.46			.28	T.		.30	.81		3.57	
Greenville	Beaver					.72	.08		.54										.01						.48			.72				1.03		3.58	
Grove City	Beaver				.30	.27	.04	1.81	1.00									.68	.40									.76	.03		.01	1.10		6.84	
Herr's Isl. Dam|||	Ohio				.01	.42	T.	.26	.08	.03								T.	.04	T.	T.			T.			.27	T.	.03	.29		.75		2.18	
Indiana	Conemaugh																																		
Ingram	Ohio				.49	.05	.20	.23	.09	T.								.08	T.						.02	.44	.14		.30	T.		.22	.59		2.85
Irwin	Youghiogheny				.25	.08	.08	.43	.03	.04								.10	.06						.05	.36	.12		.21	.11		.23	.31		2.46
Johnstown	Conemaugh				.33	.63		.49	.14	.06					T.			.09	.01	.02					.09	.64	.11		.12	.01		.35	.96		4.05
Ketner	Allegheny	.03			.03	.15	.03	.35	.08	.02								.04	.15	.03						.75			.50	.06			1.16		3.88
Linesville|||	Beaver	.02			.18	.38	.08	.08	.74	.18								T.	.21	T.						.05	.40		.16	.41	T.		.80		3.69
Lock No. 4|||	Monongahela				T.	.48			.40	.07								T.	.07	.03					.04	.31	.42	T.		.25			.81		2.88
Lycippus	Conemaugh				.32	.22		.82	.11									.13	.09						.53	.31		.13			.19	.59		3.44	
Martin	Monongahela				.02	.58		.95	.07	T.		.05						.01	.09	T.					.14	.22	.27	T.	.15			.83		3.38	
New Castle|||	Beaver				.16	.54			.20									.07		.01									.45	.20			1.18		2.81
Newell	Monongahela				.42	.07	.29	.22	.01									.13	.02				.04	.09	.45	.08		.21		.42	.29		2.74		
Parkers Landing|||	Allegheny	T.			T.	.40	.02	.37	.20	.03								T.	.20		T.			.04	.20	.45		.22	.42			1.17		3.72	
Pennline|||	Beaver	.02			.12	.36	.05	.09	.55	.20									*							.32	.12		.33	.24			.88		3.28
Pittsburgh***	Ohio				.41	.02	.25	.09	.02									T.	.07	T.						.47	.07		.24	T.		.40	.35		2.39
Ridgway	Allegheny							.41										.19								.89			.40				.78		2.67
Saltsburg|||	Conemaugh					.37	.03	.54	.20	.07								.08	.11	.01	T.				.02	.12	.50		.05	.38			.96		3.44
Saegertown	Allegheny	.15			.30	.15	.07	.40	.07									.18	.05	.05	.05					.48	.02		.65			.02	1.20		3.84
Sharon|||	Beaver					T.	.58	T.	.05	.18	.03								T.							.28	.11	.12	.50			.74		2.59	
Somerset	Youghiogheny				.36	.62		.65	.23									.05						.03	.51	.10		.09	.06	.04	.26	1.15		4.13	
Springdale|||	Allegheny				T.	.45	.01	.48	.15									.06	.05							.28	.30		.10	.37			.82		3.07
Stoyestown	Conemaugh																																		
Tionesta	Allegheny																																		
Uniontown	Monongahela				.31	.17		1.03	.06									.28	.05					.11	.24	.25	T.	.20			.18	.37		3.20	
Unity Reservoir|||	Youghiogheny				.36	.17		.69	.10	T.								.05	.15							.43			.12			.45	.85		3.37
Vandergrift	Conemaugh				.19	.13		.25	.09	.05																.44	.10		.40	.10		.10	.68		2.53
Warren	Allegheny	.09			.04	.06	.30	.24	.10										.20	.06	.02					.20	.16		.40	.18			1.08		3.13
Washington	Ohio				.63	.03	.49	.21	T.									.01	.11	T.						.53	.02		.35			.28	.46		3.18
Waynesburg|||	Monongahela				.60			.84	.03	.01								.01											.50	.33	.33	.02	.26		.84
Westford|||	Beaver					.38	.45		.53	.27									.24										*	.42	*		.65		.87
West Newton|||	Youghiogheny				.02	.34		.34	.11	T									.10	T.					T.	.26	.41					.76		2.60	
Lake Drainage.																																			
Erie***	Lake Erie				.20	T.	T.	.36	T									.12	.24	.01			.01		.28			.51	.02		.27	.43		2.45	
West Bingham	Genesee				T.	.04		.16	.10										.20	.07					.32	T.		.15	.05	T.		1.02		2.11	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Post Office address:—Greensburg.

Daily Temperatures for November, 1923.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Allentown.....	Maximum ...	47	49	56	58	58	50	48	42	43	50	56	52	55	58	45	47	51	46	40	47	57	59	46	47	48	54	48	43	46	61	50.2
	Minimum.....	24	24	26	28	42	43	37	29	30	31	32	31	31	31	37	38	39	30	23	25	26	32	36	35	31	33	34	25	25	26	31.1
Altoona.....	Maximum.....	46	50	50	50	45	49	48	38	37	54	51	55	58	59	47	54	47	38	39	49	64	55	41	40	44	46	44	34	36	47	47.2
	Minimum.....	29	23	25	37	42	44	38	30	26	30	41	36	34	30	30	35	37	34	27	20	28	44	34	35	31	31	31	21	33	32	32.3
Catawissa.....	Maximum.....	50	56	60	57	50	52	46	48	45	55	59	59	54	60	45	48	52	44	43	51	62	62	43	50	53	52	42	48	53	56	51.8
	Minimum.....	27	20	21	23	33	44	41	33	28	23	28	35	29	27	25	39	37	39	26	17	29	44	34	30	19	35	35	19	38	37	30.5
Chambersburg.....	Maximum.....	49	51	57	49	47	52	48	45	45	54	69	50	53	56	46	54	53	47	46	49	62	62	44	46	48	47	45	43	39	47	50.1
	Minimum.....	29	21	23	27	43	45	42	35	31	23	30	37	31	30	27	36	41	39	32	20	24	39	35	38	34	29	37	35	22	36	32.4
Emporium.....	Maximum.....	43	51	53	50	48	53	57	44	38	54	47	49	55	56	50	45	43	40	37	47	61	57	41	39	40	45	43	36	39	49	47.0
	Minimum.....	28	13	17	34	44	46	44	31	28	21	32	33	29	28	23	25	39	37	25	19	24	31	25	36	28	26	36	35	20	39	29.9
Erie.....	Maximum.....	43	56	59	50	55	51	46	36	38	54	52	47	44	50	53	49	42	43	38	53	60	48	45	39	47	48	42	37	43	48	47.2
	Minimum.....	33	31	36	43	48	46	35	32	31	34	39	39	35	34	40	42	36	31	27	33	48	36	36	34	34	42	34	35	30	39	36.4
Grove City.....	Maximum.....	47	55	59	54	51	52	45	40	41	54	47	54	58	62	54	52	44	42	41	53	62	58	46	47	47	46	47	37	40	48	49.4
	Minimum.....	30	28	24	41	45	33	35	19	22	28	28	28	27	42	31	38	36	33	21	21	41	36	34	35	30	37	33	32	23	37	31.6
Harrisburg.....	Maximum.....	46	50	54	50	49	49	50	46	43	58	55	52	50	55	44	52	50	46	45	48	58	59	42	46	46	53	48	43	43	50	49.2
	Minimum.....	33	28	30	33	46	46	43	35	32	30	37	38	40	38	35	41	44	39	33	27	34	42	37	38	35	34	36	31	28	39	36.1
Holtwood.....	Maximum.....	48	52	56	56	54	48	48	45	41	56	56	50	52	57	43	50	48	48	48	50	57	54	45	46	46	56	48	50	45	57	50.3
	Minimum.....	30	31	32	32	45	43	45	37	32	32	32	36	36	38	34	43	41	41	32	25	32	41	39	39	32	32	36	32	39	41	36.0
Indiana.....	Maximum.....	50	54	57	49	49	52	50	45	47	61	57	60	60	62	49	54	50	45	47	53	60	61	49	42	47	47	49	41	40	51	51.3
	Minimum.....	35	23	24	27	46	47	43	36	31	25	31	40	29	30	27	35	44	40	32	21	26	44	37	38	33	30	38	36	20	38	33.5
Philadelphia.....	Maximum.....	49	53	56	61	64	54	51	46	46	51	58	50	55	59	48	51	51	52	47	48	58	62	54	52	50	59	51	48	48	62	53.1
	Minimum.....	36	36	38	40	48	47	44	36	32	37	38	43	42	42	41	44	46	40	33	31	40	46	39	41	38	38	41	39	34	44	39.8
Pittsburgh.....	Maximum.....	44	56	60	52	55	53	43	36	41	53	52	54	55	61	54	50	41	43	42	58	65	57	52	41	46	50	39	41	48	54	49.9
	Minimum.....	34	33	34	45	47	43	36	29	29	32	38	36	36	32	39	41	36	35	29	30	47	40	41	37	36	39	34	33	30	41	36.4
Reading.....	Maximum.....	47	52	56	55	57	49	48	43	43	61	56	53	54	60	46	50	48	47	46	48	58	58	46	46	47	56	50	43	44	61	50.6
	Minimum.....	35	29	29	30	46	46	43	33	31	32	38	39	35	39	37	43	44	41	32	27	40	45	38	39	35	35	39	34	26	41	36.8
Scrantou.....	Maximum.....	44	51	58	62	55	51	48	38	37	48	50	56	44	54	50	48	48	43	34	46	58	53	43	44	45	57	47	46	48	45	48.5
	Minimum.....	30	25	28	31	47	46	40	30	28	28	35	37	38	37	34	42	43	32	26	23	35	37	37	33	33	30	39	34	28	39	34.3
Somerset.....	Maximum.....	43	48	52	46	50	53	53	52	53	55	53	51	56	64	51	50	46	38	39	52	51	62	44	45	41	51	43	40	41	51	49.1
	Minimum.....	25	20	24	35	41	43	22	23	24	24	23	21	40	25	28	38	30	30	25	17	30	32	35	35	21	31	20	27	26	32	28.5
State College.....	Maximum.....	45	48	53	47	45	50	47	42	39	55	49	49	50	50	47	48	43	40	47	58	56	40	41	41	48	44	37	38	45	46	46.2
	Minimum.....	29	18	24	34	39	41	38	29	28	28	38	34	32	27	25	34	37	34	24	21	31	39	33	35	26	31	32	31	22	33	30.8
Towanda.....	Maximum.....	42	54	57	56	52	54	48	41	39	52	47	48	47	51	45	48	47	44	38	50	59	55	41	43	44	51	45	38	43	54	47.8
	Minimum.....	28	18	21	25	44	44	40	28	27	24	34	34	35	34	28	37	40	40	35	25	18	33	29	26	33	30	25	37	33	20	30.7
Uniontown.....	Maximum.....	37	60	52	52	53	53	47	41	40	50	50	53	50	44	57	53	44	45	45	45	60	55	50	50	47	46	38	45	47	46	48.8
	Minimum.....	28	29	31	46	48	47	39	33	29	30	42	30	33	30	34	41	37	33	30	23	42	45	41	36	35	35	35	33	30	43	35.7
Warren.....	Maximum.....	45	40	45	45	48	48	45	40	40	45	48	45	56	65	60	50	45	44	40	48	60	55	42	42	41	42	42	41	37	46	46.3
	Minimum.....	28	20	24	40	43	45	40	30	28	25	38	30	30	28	28	38	35	35	25	25	38	30	28	30	26	31	36	31	23	36	31.5
Wellsboro.....	Maximum.....	41	54	58	48	45	54	47	38	38	53	41	40	46	49	48	50	44	40	35	47	48	52	40	41	40	43	40	35	42	49	44.9
	Minimum.....	25	13	18	25	40	40	35	25	24	20	31	31	35	28	20	33	35	29	19	19	31	29	22	29	26	22	32	30	19	34	27.3
Williamsport.....	Maximum.....	46	50	55	50	49	52	51	43	42	51	52	55	61	56	45	46	48	48	43	47	56	56	51	44	46	48	48	41	40	48	48.6
	Minimum.....	31	24	25	29	43	42	42	34	30	24	30	38	32	28	30	36	40	39	28	23	32	43	31	38	31	27	38	35	23	37	32.8

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXVIII.

DECEMBER, 1923.

No. 12.

GENERAL SUMMARY.

This was the warmest December on record since that of 1889 which gave the same mean for the State. During the greater part of the month there was no frost in the ground, and winter wheat and rye remained green and continued to grow. Pastures, especially in the southern counties, furnished some feed, and stock was housed only a part of the time. There was more or less plowing in progress all through the month. Most of the corn husking was finished during the month, but as usual a few farmers left their corn in the shock. Conditions were favorable for all kinds of outdoor pursuits, and building and construction work progressed almost without hindrance. In the larger cities building continued under almost as favorable conditions as obtained during the summer and fall. A few moderately heavy rains soaked the soil and replenished the water supply which had been low in some places for many months. Most of the streams were raised to normal stages or a little higher, and lakes and ponds were filled to the usual level. Snow fell in practically all parts of the State on the 14th, and was followed by a sharp drop in temperature on the 15th when the lowest temperature for the month was recorded at most stations. This cold period was not severe enough to be classed as a cold wave, but brought the temperature nearly to zero at a few stations. The snow of the 14th was all that occurred in the southeastern counties, and it did not remain long on the ground. Other snows occurred in the northern counties during the latter part of the month, but the snowfall was generally much less than the December normal. There were no severe or damaging storms reported.

TEMPERATURE.

The mean temperature for the State, as shown by the records from 80 stations, was 39.6°, or 9.0° above the December normal. The highest monthly mean was 44.6° at Philadelphia, and the lowest mean was 31.6° at Freeland. The highest temperature recorded during the month was 71° at Gettysburg on the 21st, and the lowest was 1° at Ebensburg on the 15th.

PRECIPITATION.

The average precipitation from rain and melted snow, as shown by the records of 122 stations, was 4.99 inches, or 1.54 inches more than the December normal. The greatest monthly total was 8.55 inches at Creekside, and the least was 2.42 inches at Scranton. The greatest 24-hour precipitation was 2.28 inches at Somerset on the 28th. The average snowfall for the State was 2.4 inches. The greatest monthly snowfall was 9.0 inches at Elk Lick.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.				
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total move- ment, in miles.	Velocity, in miles per hour.			
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.	Date.
Erie.....	53.4	284.5	19	79	76	11,743	15.8	55	sw.	31
Harrisburg.....	123.9	290.6	43	73	74	4,796	6.4	38	sw.	28
Philadelphia.....	139.8	290.6	48	74	69	7,097	9.5	37	sw.	6
Pittsburgh.....	130.7	287.3	45	77	74	8,287	11.1	49	sw.	13
Reading.....	122.0	290.6	42	81	84	4,725	6.4	28	nw.	28
Scranton.....				86	78	5,290	7.1	38	sw.	28

* For any five-minute period.

COMPARATIVE DATA FOR DECEMBER.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	32.5	62	-10	3.14	5.57	1.44	8	8	15
1889.....	39.6	73	0	2.77	5.05	0.85	11	9	11
1890.....	27.2	59	-11	3.97	9.68	1.72	7	8	16
1891.....	38.4	68	-3	4.09	6.53	2.00	12	8	11
1892.....	27.8	70	-13	1.69	4.37	0.40	7	9	15
1893.....	32.2	70	-7	3.06	6.07	1.41	6	11	14
1894.....	32.4	66	-28	3.95	5.93	2.27	10	9	12
1895.....	34.2	70	-10	3.22	6.55	1.40	10	9	12
1896.....	30.6	67	-13	1.20	2.62	0.40	10	9	12
1897.....	33.0	73	-6	3.95	6.25	1.28	6	8	17
1898.....	29.8	68	-11	2.98	4.79	1.31	10	8	13
1899.....	31.5	73	-11	3.04	6.00	1.18	10	10	11
1900.....	31.2	65	-2	2.08	4.16	0.40	8	9	14
1901.....	29.1	77	-18	5.91	10.26	2.62	7	9	15
1902.....	28.4	68	-12	5.54	8.51	1.97	7	7	17
1903.....	25.4	60	-14	2.66	4.83	0.92	8	9	17
1904.....	25.8	71	-19	2.48	3.71	1.32	7	7	17
1905.....	33.6	65	-5	3.57	5.48	0.95	10	7	17
1906.....	30.8	67	-14	3.97	7.08	1.69	5	5	21
1907.....	33.2	68	-8	4.30	7.89	1.85	7	7	16
1908.....	32.0	74	-2	2.86	4.61	1.26	9	8	14
1909.....	27.0	71	-10	3.39	8.50	1.19	9	8	14
1910.....	24.4	68	-14	2.65	4.41	0.64	8	8	17
1911.....	36.3	70	-5	3.27	5.99	0.75	9	9	19
1912.....	34.4	74	-8	3.27	6.48	1.70	9	7	15
1913.....	34.2	66	-7	2.63	4.11	0.69	9	8	15
1914.....	27.3	69	-28	4.63	7.74	2.43	8	8	18
1915.....	29.4	70	-7	4.06	6.53	1.36	6	8	17
1916.....	29.7	73	-12	3.07	6.38	0.59	11	9	11
1917.....	21.5	52	-28	1.78	5.16	0.60	10	8	13
1918.....	36.6	72	-1	3.38	5.74	0.90	9	7	15
1919.....	25.3	66	-23	2.61	4.75	0.95	9	8	14
1920.....	33.4	68	-7	3.28	6.77	1.53	7	9	15
1921.....	31.6	66	-11	2.59	6.25	0.91	8	8	15
1922.....	31.5	69	-9	2.75	4.55	1.19	10	8	13
1923.....	39.6	71	1	4.99	8.55	2.42	9	7	15

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	4.2	6.4	7	3.0	22	18
Phillipsburg.....	Delaware.....	4.6	8.4	2	2.6	21	22
Mauch Chunk.....	Lehigh.....	4.6	5.7	24	4.0	18	12
Wilkes-Barre.....	Susquehanna.....	6.9	9.0	8	5.0	22	20
Williamsport.....	Susquehanna.....	5.1	9.0	24	2.6	21	20
Harrisburg.....	Susquehanna.....	5.7	7.6	25	3.8	1	17
Freeport.....	Allegheny.....	9.0	15.3	7	4.5	20	22
West Newton.....	Youghiogheny.....	4.1	8.7	29	1.5	20	20
Lock No. 4.....	Monongahela.....	18.5	27.9	29	14.7	21	31
Pittsburgh.....	Ohio.....	12.7	18.2	29	9.0	21	22
Beaver Dam.....	Ohio.....	15.0	23.4	24	8.9	18	30

Climatological Data for December, 1923.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.			Prevailing direction of wind.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.			Pt. cloudy.	Cloudy.
Atlantic Drainage.																				
Allentown	Lehigh	254	11			62	13	19 ¹	15		5.35	+1.50	1.56	2.5	15	8	16	7	nw.	John A. Frick.
Altoona	Blair	1,615	36	39.2	+10.2	64	13	13	15	29	6.56	+4.21	1.32	3.0	17	9	9	13	w.	Lewis E. Biller.
Bethlehem	Northampton	295	39	42.0	+8.9	63	21	20	15	31	3.58	+0.08	1.10	2.0	10	5	17	9	sw.	R. H. Brennecke, Jr.
Biglerville	Adams	652	1	41.1		69 ^a	21	11 ^b	15	30 ^b	3.63		1.37	0.5	9	13	4	14	.....	R. C. Walton.
Bustleton	Philadelphia	125	4	41.6		64	13	13	15	36	4.58		1.13	1.5	12	11	6	14	w.	Experiment Station.
Carlisle	Cumberland	467	56	40.8	+9.5	66	21	19	15	29	4.20	+1.19	1.26	T.	11	11	7	13	nw.	Prof. C. E. Miller.
Catawissa	Columbia	520	26	39.8	+8.2	63	12 ¹	15	15	39	3.62	+0.62	1.79	1.0	16	9	6	16	.....	H. H. Yetter.
Center Hall	Center	1,272	27	40.2	+11.2	62	13	15	14	30	6.16	+3.41	1.24	2.0	12	.....	.....	.....	.....	S. W. Smith.
Chambersburg	Franklin	580	23	41.0	+8.1	67	21	16	15	34	4.81	+2.19	0.96	0.7	15	8	10	13	sw.	William B. Spear.
Clearfield	Clearfield	1,120	13	38.2	+9.5	56	10	11	15	35	7.56	+4.47	1.75	1.0	16	8	8	15	e.	E. W. Hess.
Coatesville	Chester	380	35	38.8	+5.8	62	13	11	15	40	5.01	+0.79	1.41	3.2	13	11	9	11	w.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	13	39.0		60	21	13	15	32	4.15	+0.43	0.82	1.9	14	12	4	15	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	35	37.7	+8.6	61	13	10	15	28	5.45	+2.19	1.11	1.0	6	2	10	19	w.	T. B. Lloyd.
Ephrata	Lancaster	380	22	40.8	+9.5	61	13	18	15	26	3.57	+0.06	0.80	1.0	12	12	4	15	s.	E. K. Hershey.
Everett	Bedford	1,040	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thropp Co.
Freeland	Luzerne	1,970	8	31.6		52	9 ¹	14	17	26	4.00		0.63	7.8	15	9	5	17	nw.	Theo. Reichmann.
George School	Bucks	190	16	40.9	+8.6	66	14	14	15	39	4.28	+0.47	0.90	2.7	13	18	4	9	s.	Prof. N. W. Swayne
Gettysburg	Adams	600	49	42.0	+10.3	71	21	15	15	31	4.07	+0.74	0.94	1.5	10	9	14	8	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	19	38.2	+9.7	60	8	9	15	30	5.05	+0.78	1.10	6.0	12	10	3	18	n.	Capt. J. G. Johnson.
Hamburg	Berks	535	30	39.0	+7.0	61	21 ¹	12	15	34	4.87	+1.02	1.07	5.0	11	9	14	8	w.	State Sanatorium.
Hanover	York	600	19	42.7	+8.9	70	21	18	15	32	4.16	+0.31	0.84	1.0	14	17	4	10	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	53	41.8	+9.0	64	21	24	15	24	3.75	+1.10	0.89	1.1	15	9	7	15	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	4	36.0		56	8 ¹	10	15	32	4.99		0.80	7.0	15	10	5	16	n.	J. S. Pennell.
Huntingdon	Huntingdon	650	35	40.6	+9.1	68	22	13	15	37	4.92	+1.84	1.00	T.	9	8	13	10	w.	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Kennett Square	Chester	340	51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster	Lancaster	255	35	41.8	+8.4	64	13 ¹	17	15	38	4.26	+0.85	1.07	T.	10	17	3	11	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	25	37.6	+10.2	60	13	15	15	35	2.60	+0.47	0.60	.....	12	6	4	21	.....	C. P. Darling.
Lebanon	Lebanon	469	82	39.7	+7.8	62	8 ¹	21	15	31	4.22	+0.60	0.85	2.7	11	12	10	9	w.	S. B. Benzing.
Lewisburg	Union	450	48	40.4	+11.4	61	21	18	15	26	4.29	+1.03	1.07	1.0	16	9	6	16	w.	Prof. W. G. Owens.
Lock Haven	Clinton	616	34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. Scott Kift, C. E.
Lykens	Dauphin	680	8	40.0		63	8	10	15	36	4.36		0.84	T.	13	11	9	11	uw.	Susquehanna Collieries Co.
Marcus Hook	Delaware	50	3	44.2		65	13 ¹	21	15	27	4.38		1.25	1.0	11	.....	.....	.....	.....	Gen. Chemical Co.
Mauch Chunk	Carbon	600	33	38.8	+8.3	62	21	15	15	32	5.17	+0.93	0.99	2.7	14	10	4	17	e.	R. K. Wintermute.
Mifflintown	Junata	445	19	42.0	+11.8	63	21	19	15	34	3.84	+0.76	0.94	T.	15	11	1	19	nw.	Wellington Smith.
Montrose	Susquehanna	1,720	20	33.8	+8.2	58	13	6	15	33	2.81	+0.11	0.43	5.0	12	8	6	17	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	20	35.1	+10.1	63	21	8	15	28	2.61	-1.22	0.90	2.5	10	5	6	20	sw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	11	36.2		56	6	13	15	26	4.98	+1.96	1.18	T.	13	5	10	16	se.	A. H. Boatman.
Narberth	Montgomery	300	4	41.8		63	13	18	15	34	5.02		1.26	2.0	14	12	6	13	sw.	Charles Decker.
Neshaminy Falls	Bucks	60	34	38.8		65	13	12	15	42	4.52		1.02	2.5	13	13	9	9	w.	North Springfield Water Co.
Palmerton	Carbon	398	6	37.6		60	13	12	15	31	2.74		0.71	3.7	11	10	12	9	sw.	F. G. Breyer.
Philadelphia (a)	Philadelphia	117	52	44.6	+8.3	65	13	27	15	23	4.06	+1.02	1.14	1.8	15	10	9	12	w.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	7	42.8		66	13	24	15	25	4.32		0.85	1.9	11	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville	Chester	100	12	39.4		62	13 ¹	12	15	34	4.77		1.12	0.3	11	12	13	6	nw.	North Springfield Water Co.
Quakertown	Bucks	496	38	38.0	+6.9	60	13 ¹	10	15	35	4.64	+1.10	1.03	5.7	12	9	10	12	nw.	John E. Benner.
Reading	Berks	325	53	42.0	+9.8	61	21	22	15	23	4.51	+1.19	1.11	2.0	16	9	8	14	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	28	38.7	+8.9	60	13	19	15	26	2.42	-0.19	0.53	5.1	18	2	12	17	s.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	33	39.7	+8.3	60	13 ¹	16	15	32	4.59	+1.38	1.20	1.0	12	13	5	13	s.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	27	40.2		63	13	19	15	31	4.31	+0.42	1.20	T.	12	14	7	10	nw.	W. S. Guiles.
State College	Center	1,217	38	38.3	+8.7	58	9 ¹	14	15	26	4.48	+1.77	0.85	0.5	13	8	7	16	w.	C. A. Kern.
Towanda	Bradford	754	28	37.4	+8.8	61	13	14	15	34	2.92	+0.55	0.51	5.1	14	3	5	23	e.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	67	34.8 ¹	+6.6	57	13	10 ¹	15	24 ¹	3.12	+0.52	0.50	2.3	11	15	2	14	sw.	George W. Hill.
West Chester	Chester	455	85	40.0	+7.0	61	9 ¹	18	15	34	4.42	+0.33	1.04	2.5	12	16	4	11	nw.	Arthur M. Hay.
Williamsport	Lycoming	521	36	39.2	+8.7	59	13	18	15	30	4.40	+1.35	0.64	T.	15	12	4	15	nw	Jacob April.
York	York	400	35	41.8	+9.0	69	21	14	15	36	3.70	+0.56	0.82	T.	12	14	7	10	w.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	30	42.2		66	13	17	15	36	5.99	+3.27	0.93	1.5	17	3	5	23	sw.	U. S. Engineer.
Bradford	McKean	1,427	8	37.5		59	13	5	15	41	5.77		1.37	5.7	20	8	2	21	sw.	City Engineer.
Bradys Bend	Armstrong	930	5	36.2		64	12	4	15	31	6.48		1.40	4.0	7	6	5	20	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	32	35.8	+7.9	62 ^a	13 ¹	4 ^a	15	37 ^a	5.59	+2.76	1.60	2.0	13	12	6	13	.....	John Fawcett.
Claysville	Washington	1,150	19	42.0	+10.1	67	19	13	15	42	6.60	+3.65	1.44	2.1	18	9	8	14	s.	J. L. Melvin.
Corry	Erie	1,430	11	37.7		59	31	18	15	31	6.10		1.84	6.6	23	8	5	18	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	26	41.8	+10.1	69	31	12	15	38	5.82	+2.52	1.14	3.0	18	5	14	12	w.	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	5																	

Daily Precipitation for December, 1923.

Stations	Drainage Basin.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic Drainage.																																			
Allentown|||	Lehigh	.52			.01	T.	.47	.54	.05	T.		.09	.09			.42						.02	.35	1.56	.28	T.	T.		.56				.37	5.35	
Altoona	Juniata				.01		.87	.89	.02		.38	.20	.17		.09	.06						.03	1.32	.65		.06	.05		.98		.18		.60	6.56	
Ansonia|||	W. Br. Susq.	.19					.35	.32	.19		.09	.22	.12			.15	T.						.04	.36	.50	.32		.03		.25	T.		.08	3.21	
Bethlehem	Lehigh						.45	.26				.10	.08			.26							1.10	.30	.20				.43				.40	3.58	
Biglerville	Susquehanna						1.37	.30				.17				.08							*	1.15			.01		.10				.45	3.63	
Blosserville	Lower Susq.						.95	.85			.40				.13								1.06	.65				.79		*	*	*	.78	5.61	
Bustleton	Lower Del.						1.13	.45				.08	.26			.37							.40	.52				*	*	*	*	1.37	4.58		
Carlisle	Lower Susq.						.60	.52			T.	.23	.17		T.	.09							.76	.50		T.	.05	T.	.68		.28		4.20		
Catawissa	N. Br. Susq.				.06		.25	.05			.12	.17	.10			.17	.06					.11	1.45	.34		.02		.33	.04		.30		.05	3.62	
Center Hall	Susquehanna						.94	.58			.24	.37	.08			.07	.10						1.18	1.24		.12			.37			.87	6.16		
Chambersburg	Potomac						.96	.54			.02	.12	.04			.05	.08						.81	.74		.04	.03	.04	.69		.24		4.81		
Clearfield	W. Br. Susq.	.02	T.				.71	1.75	.04		.65	.09			.29						.03		1.10	.82		.14	.04	.20	.65		.18		7.56		
Coatesville	Lower Del.						1.41	.41			.01	.07	.18			.34							.51	.52		.05		.06	.60		.03		.82	5.01	
Colebrook	Lower Susq.						.82	.34			.03	.09	.30		.03	.21						T.	T.	.71	.63		.05		.03	.48		.08		3.55	
Conshohocken	Schuylkill						1.09	.44			.09		.14			.25						T.		.39	.49			.01		.44		.03		.67	4.04
Cresson|||	Juniata		.03				.70	.25	.60		.40	.20	.10			.04							.10	1.05	.80		.10	T.	.35		.85		.75	6.32	
Doylestown	Lower Del.						.78	.47				.11	.27			.33						T.	.58	.62			T.		.48			.52		4.16	
Driftwood	W. Br. Susq.																					T.	T.	.80	.49		.10	.05	.08	.60	T.	.15		.90	5.45
Emporium	W. Br. Susq.		T.		.08		.34	1.11			.33	.12	.06		.21	.03						T.	T.	.80	.49		.10	.05	.08	.60	T.	.15		.90	5.45
Ephrata	Lower Susq.						.80	.22			.01	.08	.26			.18							.01	.48	.66		T.		.38			.02		3.57	
Everett	Juniata																							.10	.49	.17		.08		.45	T.		.42	3.54	
Forest City	N. Br. Susq.	.18		.02			.35	.46	.11		.12	.08	.33			.18								.32	.48	.24		.18		.40	T.		.28	4.00	
Freeland|||	Lehigh	.63					.14	.56	.20		.02	.04	.18			.27	T.					.06	.32	.48	.24		.18		.40	T.		.28	4.00		
George School	Lower Del.						.90	.41				.09	.19			.35						.02	.44	.54	.07		.03		.61		.10		.53	4.28	
Gettysburg	Potomac						.94	.31				.13	.13			.20							.79	.55			T.		.46		.16		.40	4.07	
Girardville|||	Susquehanna						.38	.85			.02	.17	.11		.17						.01	.08	1.53	.26		.11		.31	.19		.20		.20	4.54	
Gordon	Lower Susq.	T.					.28	.78	.05		.07	.11	.28			.28							1.10	.90			.20		.64			.36		5.05	
Gouldsboro|||	Lehigh	.87					.73	.68	.12		.16				.08	.18						*	.20	.65			.30	.12	.44	.15	.09	.28	4.27		
Graterford	Schuylkill						.73	.86		T.	.03	.07			.01	.24							.75	.27		T.	.06		.31		.08		.76	4.17	
Hamburg	Schuylkill						.64	.46	.08						.41									1.07	.61	.26	.10	.01	.52		T.		.71	4.87	
Hannover	Lower Susq.	.01					.84	.36			.02	.05	.19			.24							.81	.52			.01	.02	.46		.11		.52	4.16	
Harrisburg***	do.			.08			.53	.48			.09	.20	.07		.03	.04						T.	.77	.34		.08	T.	.29	.29		.21		.25	3.75	
Hawley|||	Upper Del.	.52					.22	.65	.80		.02	.05	.26	T.	.10	.13							.72	.21		.06			.80			.41		4.99	
Holtwood|||	Lower Susq.	.27					.83	.47	.05		.05	.14			T.	.04							.54	.26	.12				.41			.45		3.63	
Huntingdon	Juniata						.55	.65	T.		.20	.02			T.	T.						T.		1.00	1.00		T.	T.	T.	.95		.15		4.92	
Jersey Shore	W. Br. Susq.																																		
Kennett Square	Delaware																																		
Lancaster	Lower Susq.						1.07	.30			.05	.05	.18			.28							.42	.81					.54			.56	4.26		
Lansford|||	Lehigh	1.06					.27	1.09	.12		.04	.13				.12							.01	.48	*	1.50		.09		.40			.42	5.73	
Lawrenceville	N. Br. Susq.						.25	.60	.05		.05				.30	.05						T.	.10	.35	.10				.60		.05	.10		2.60	
Lebanon	Lower Susq.			.53			.53				.37				.22	.20							.25	.85	.12		.05		.67		.43			4.22	
Lewisburg	W. Br. Susq.		.01				.39	.47	.01		.12	.02	.18			.05	.09						.02	1.07	.70		T.	.02	T.	.57		.25		.32	4.29
Lloyd	W. Br. Susq.																																		
Lock Haven	W. Br. Susq.																																		
Lykens	Susquehanna						.38	.84	.01			.12	.22			.26						T.	.65	.81		.04	.02		.63		.06		.32	4.36	
Marcus Hook	Lower Del.						1.25	.54			.07	.14				.29							*	.92			.01	*		.50			.66	4.38	
Mauch Chunk	Lehigh						.49	.93			.09	.13			.07	.22						.02	.99	.90		.03	.03		.64		.10		.53	5.17	
Midlinton	Juniata						.52	.57	.16		.09	.05	.11		.09	.05						T.	.94	.75		.01	T.	.05	.10		.19		.16	3.84	
Montrose	N. Br. Susq.						.43	.36			.35	.05	.35		.20							.22	.10	.10	.30	T.	T.	T.	.25		T.	.10	2.81		
Mount Pocono	Upper Del.						.50	.25	.06		.06	.03			.10								.01	.90	.40		T.	T.	T.	.30				2.61	
Mount Union|||	Juniata						.42	.50	.20		.59	.20			.23								1.05	.73		T.			.84			.39	5.15		
Muncy Valley	W. Br. Susq.						.38	1.18	.11		.35	T.	.30		.10	.23							.81	.47	.01	T.	.16		.50		T.	.38	4.98		
Narberth	Lower Del.						1.26	.59		.06																									

Daily Precipitation for December, 1923.—Continued from page 47.

Stations.	Drainage Basin.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Franklin|||	Allegheny	.12	....	.02	.12	.52	.96	.95	....	.22	.27	.06	....	.08	.36	....	....	....	....	....	.06	.10	.46	.25	.12	....	.15	T.	.45	....	.38	5.65	
Freeport|||	Allegheny	.04	....	....	....	.91	.64	.66	....	.36	.56	.16	....	....	.31	....	....	....	....	....	....	....	.19	1.02	.41	.04	....	.11	....	1.09	....	.74	7.24
Greensburg	Youghiogheny	T.	T.	....	T.	.45	1.02	....	....	.48	.07	.25	....	.30	.19	....	....	....	....	....	.03	.10	1.02	1.07	T.	.06	....	.62	....	.15	.56	6.37	
Greenville	Beaver	....	....	....	.10	....	1.70	....	....	.42	....	....	....	....	.55	....	....	....	....	....	....	.53	.53	.35	.35	....	....	....	.65	....	.20	....	4.70
Grove City	Beaver	.03	.01	.08	.72	1.04	.06	.10	....	....	....	....	....	.40	.05	....	....	....	....	....	T.	.05	.20	.50	.31	.01	T.	.23	.30	.22	....	.10	4.41
Herrs Isl. Dam|||	Ohio	.01	....	T.	T.	.75	.27	.62	....	.05	.50	.14	....	T.	.30	T.	....	....	....	....	T.	.18	1.15	.38	.02	....	.03	....	.65	....	.69	5.74	
Indiana	Conemaugh	....	....	....	....	.50	1.10	.10	....	.60	.01	.10	....	.25	.10	....	....	....	....	....	....	.15	.10	1.43	.42	.12	.02	....	....	....	.06	.03	5.05
Ingram	Ohio	....	T.	....	.08	.70	.87	....	....	.59	.10	.03	....	.24	.02	....	....	....	....	....	....	.10	.07	1.26	.22	.03	T.	.33	.25	.16	1.09	6.14	
Irwin	Youghiogheny	T.	....	....	....	.60	.88	....	....	.54	.12	.15	....	.07	.19	....	....	....	....	....	....	.10	.07	.85	.57	.03	.09	.20	.54	.15	.53	5.68	
Johnstown	Conemaugh	....	....	T.	.15	.46	.74	....	....	.10	.10	.25	....	.20	.10	....	....	....	....	....	.02	.12	1.02	.54	.05	.15	.11	.30	.55	.45	.60	6.31	
Ketner	Allegheny	.03	.03	....	.05	.31	1.24	....	....	.37	.04	.10	....	.25	.05	....	....	....	....	....	....	.11	.54	.46	.05	.09	.10	....	.52	.02	.11	.78	5.25
Linesville|||	Beaver	.11	....	.01	.14	.47	.82	.43	....	.29	.06	....	....	.27	.40	T.	....	....	....	....	....	.17	.46	1.18	.22	.13	.41	.01	....	.34	4.92		
Lock No. 4|||	Monongahela	T	....	....	....	.60	.35	.85	....	T.	.53	.18	....	....	.38	....	....	....	....	....	....	.05	.74	.99	.09	....	.08	....	.91	....	.68	6.43	
Lycippus	Conemaugh	....	....	....	....	1.51	....	....	....	.47	.30	.20	....	.18	.17	....	....	....	....	....	T.	.21	1.15	.59	....	.13	....	.10	.58	.13	.59	6.31	
Martin	Monongahela	....	....	....	.46	.09	.68	....	....	....	.40	.27	....	.42	....	....	....	....	....	....	....	.13	.22	.73	.04	....	.04	....	.38	....	.85	4.71	
New Castle|||	Beaver	....	.01	.08	.73	.10	.34	....	.48	.33	.11	....	....	.19	....	....	....	....	....	....	.34	....	.47	.23	.05	T.	.07	....	.60	....	.82	4.98	
Newell	Monongahela	....	....	....	.54	....	.92	....	....	.50	.18	.01	....	.13	....	T.	....	....	....	....	....	.02	.23	.67	.38	....	T.	....	.38	.14	.10	.50	4.70
Parkers Lauding|||	Allegheny	.04	....	T.	.02	.68	.75	1.20	....	.42	.47	.14	....	T.	.25	T.	....	....	....	....	....	.10	.22	.56	.33	T.	....	.25	T.	.88	T.	.93	7.25
Pennline|||	Beaver	.12	....	....	.15	.59	.85	.46	....	.20	.10	T.	....	.20	.33	....	....	....	....	....	....	.07	.12	.42	.16	.27	....	....	....	T.	.30	4.44	
Pittsburgh***	Ohio	....	T.	T.	.64	12	1.00	.46	....	T.	.58	.13	....	.13	.02	....	....	....	....	....	....	.12	.11	1.51	.06	T.	.03	T.	.67	.02	.40	.68	6.22
Ridgway	Allegheny	....	....	....	.52	1.54	....	....	....	.40	.14	....	....	.24	.14	....	....	....	....	....	....	.23	....	.72	.23	....	....	....	.35	....	.17	.69	5.44
Saltsburg|||	Conemaugh	.05	....	....	.52	.42	.80	....	....	.05	.58	.18	....	.02	.42	....	....	....	....	....	T.	.20	.97	.46	.13	....	.23	....	.76	....	.65	6.44	
Saegerstown	Allegheny	....	....	....	.56	1.52	....	....	....	.40	.05	....	....	.96	....	....	....	....	....	....	....	.10	.10	.45	.40	....	.34	.40	.40	.07	.50	6.25	
Sharon|||	Beaver	.03	....	....	.06	.48	.71	.36	....	.36	.16	....	....	T.	.34	....	T.	....	T.	T.	.03	.62	.20	....	....	T.	.10	T.	.47	T.	.39	4.31	
Somerset	Youghiogheny	....	....	....	.06	.52	.60	....	....	.06	.03	.02	....	.16	.20	....	....	....	....	....	.10	.06	.85	.66	....	.25	....	2.28	....	.65	.45	6.95	
Springdale|||	Allegheny	.01	....	....	.02	.78	.28	.61	....	.07	.65	.16	....	.30	.37	....	....	....	....	....	....	....	.22	1.22	.48	.06	....	.10	....	.90	....	.99	7.22
Stoyestown	Conemaugh	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tionesta	Allegheny	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Uniontown	Monongahela	....	.05	....	.16	.82	....	....	....	.25	.21	.25	....	.38	.12	....	....	....	....	....	.05	.08	.42	.55	.02	.08	....	.22	.46	....	.23	.73	5.08
Unity Reservoir|||	Youghiogheny	....	....	....	.42	.89	.05	....	....	.37	.19	.24	....	.18	.34	....	T.	....	....	....	.05	.12	1.12	.70	.10	.08	.08	1.2	.60	.22	.55	6.42	
Vandergrift	Conemaugh	....	....	....	.55	1.55	....	....	....	.54	....	.28	....	.14	.12	....	....	....	....	....	.16	....	1.59	*	*	....	.15	.16	.80	....	1.16	....	7.40
Warren	Allegheny	....	....	....	.01	.34	.83	....	.04	.26	....	.04	....	.30	.12	....	....	....	....	....	....	.06	.50	.20	.15	.10	.18	.07	.07	.26	.08	.28	3.84
Washington	Ohio	T.	....	....	.50	.02	.95	....	....	.57	.19	....	T.	.29	....	....	....	....	....	....	.10	.37	1.49	.06	....	.05	....	.50	.03	....	.29	.78	6.15
Waynesburg|||	Monongahela	....	....	....	.46	.28	T.	....	....	.58	.30	....	....	.46	....	....	....	....	....	....	.10	.66	.92	.14	....	.10	....	.58	....	.77	....	5.21	
Westford|||	Beaver	....	....	....	.16	.46	* 1.28	....	....	....	.48	.05	....	T.	.67	....	....	....	....	....	....	.12	.54	.17	.15	....	.19	....	.48	T.	.32	5.07	
West Newton|||	Youghiogheny	....	....	....	.71	.43	.63	....	....	T.	.51	.18	....	....	.40	....	....	....	....	....	....	....	.06	.89	.93	.05	....	.04	....	.62	....	.71	6.16
Lake Drainage.																																					
Erie***	Lake Erie	....	T.	.01	.32	.42	1.29	....	.08	.15	T.	....	.09	.64	T.	....	T.	....	....	....	.28	.05	.18	.33	....	.05	....	.39	.13	T.	.05	.26	4.72
West Bingham	Genesee	T.	T.	....	T.	.33	.48	....	....	.26	.08	....	....	.21	1.10	....	....	....	....	....	....	....	.40	.34	.10	.10	.05	....	.50	.05	.10	.20	4.30

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. ‡ Post Office address:—Greensburg

Daily Temperatures for December, 1923.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum ...	51	46	47	50	59	49	48	55	55	47	47	53	62	35	36	43	44	37	44	52	44	54	54	41	38	42	37	48	42	36	45	46.5
	Minimum	30	31	30	32	45	38	37	37	43	39	32	32	30	20	19	20	23	23	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Altoona.....	Maximum	43	51	44	45	44	47	45	56	57	53	49	53	64	42	31	46	43	44	45	54	55	53	50	48	35	34	31	41	41	38	45	46.0
	Minimum	37	36	31	30	38	40	33	33	50	40	33	29	35	21	13	20	31	30	22	37	50	45	40	34	29	27	25	31	28	29	31	32.0
Catawissa.....	Maximum	47	45	51	52	58	47	48	60	54	48	50	63	61	61	36	48	41	45	50	51	63	45	44	44	37	39	35	47	44	37	48	48.0
	Minimum	37	30	32	26	39	44	35	32	42	43	34	24	36	28	15	24	24	29	20	25	34	43	40	29	25	30	25	32	32	26	33	31.2
Chambersburg.....	Maximum	48	47	48	49	46	50	50	60	63	57	49	55	65	54	33	53	46	43	48	56	67	57	46	50	36	42	37	50	49	44	42	49.7
	Minimum	40	26	31	26	40	39	35	30	47	44	37	27	31	27	16	23	33	27	22	30	40	44	42	34	27	32	28	33	28	29	33	32.3
Emporium.....	Maximum	43	46	43	48	47	53	57	57	46	43	41	61	33	32	43	39	39	44	44	53	51	47	38	38	35	35	41	37	37	53	44	41.4
	Minimum	40	40	29	28	41	37	34	32	45	43	32	23	33	22	10	19	34	29	20	32	44	47	38	26	27	25	20	33	30	26	36	31.3
Erie.....	Maximum	43	44	45	45	48	44	47	55	48	50	42	55	58	30	34	48	40	41	57	56	52	45	41	38	37	35	40	48	48	38	45	42.8
	Minimum	39	39	36	39	42	38	34	47	43	40	35	34	26	24	30	34	34	37	48	48	44	41	32	30	32	31	31	32	31	33	32	35.2
Grove City.....	Maximum	44	42	45	53	51	50	45	54	56	49	50	52	60	33	32	45	43	41	57	53	53	53	52	47	34	36	35	51	42	36	59	49.6
	Minimum	37	34	29	32	43	36	31	31	31	41	28	23	31	20	13	25	24	25	24	42	48	49	45	24	27	32	27	30	25	30	35	31.4
Harrisburg.....	Maximum	48	47	46	49	50	56	50	61	59	48	48	56	61	37	33	50	45	41	47	50	64	55	47	44	39	39	37	48	47	37	40	47.8
	Minimum	41	35	37	32	41	41	36	39	48	44	37	34	37	29	24	27	37	34	28	34	44	44	43	34	31	34	32	33	34	32	35	35.8
Holtwood.....	Maximum	48	50	47	48	54	54	51	56	54	56	50	47	59	62	38	32	50	44	43	46	48	61	50	46	39	39	38	50	46	41	54	48.1
	Minimum	36	32	32	30	41	43	36	37	42	45	32	31	37	26	20	27	34	28	27	34	42	43	36	28	31	32	30	30	30	30	37	33.9
Indiana.....	Maximum	44	47	44	58	51	49	45	56	57	53	44	58	67	40	36	43	42	42	57	57	54	56	51	49	42	50	53	50	52	54	59	50.3
	Minimum	37	37	30	30	42	32	33	37	49	43	30	37	37	21	11	25	30	25	25	39	51	47	33	27	20	22	26	26	25	29	25	31.1
Mifflintown.....	Maximum	50	50	51	48	49	57	53	61	57	53	51	62	62	51	36	55	49	51	54	49	63	55	47	47	39	38	36	44	40	41	41	49.7
	Minimum	43	30	36	29	42	40	31	32	41	40	39	31	33	28	19	21	36	34	23	31	43	46	44	33	31	34	32	33	34	30	36	34.8
Philadelphia.....	Maximum	54	51	49	51	60	59	51	57	61	51	50	57	65	44	37	47	46	43	48	53	64	53	49	49	40	44	40	54	47	43	48	50.5
	Minimum	44	39	41	38	43	45	39	41	47	46	42	37	42	30	27	32	38	34	32	40	49	45	44	37	37	33	34	38	35	34	36	38.6
Pittsburgh.....	Maximum	42	46	46	58	56	49	48	60	60	56	43	59	66	39	36	46	40	44	56	60	60	58	52	39	36	40	55	58	43	46	63	50.1
	Minimum	39	37	36	40	45	37	35	45	50	40	33	32	28	24	22	30	32	32	32	33	48	54	49	31	30	37	37	31	29	36	34	35.9
Reading.....	Maximum	50	46	47	50	54	55	47	56	56	50	47	55	60	37	36	48	45	44	47	54	61	46	47	45	39	42	36	48	43	40	41	47.7
	Minimum	41	33	38	31	41	45	38	42	49	46	41	36	37	27	22	29	36	32	29	34	46	44	42	34	31	33	32	34	32	31	35	36.2
Scranton.....	Maximum	47	43	44	51	49	58	46	56	54	57	44	49	60	34	33	43	35	46	50	56	45	46	38	36	38	37	43	38	36	46	49	49.4
	Minimum	38	30	31	30	40	39	36	38	47	40	34	31	34	25	19	26	33	26	25	35	43	41	38	26	26	30	29	29	30	27	31	32.5
Somerset.....	Maximum	38	48	50	62	45	42	46	52	51	55	50	59	65	31	32	44	38	45	57	57	58	55	53	52	38	36	26	52	52	47	60	48.2
	Minimum	24	30	35	27	38	29	28	33	47	45	28	24	32	16	17	25	26	30	24	37	50	50	25	22	25	22	25	28	28	30	34	30.1
State College.....	Maximum	43	47	45	46	45	53	43	47	58	45	47	54	58	35	31	47	44	40	47	48	57	53	48	47	36	34	40	41	36	50	45	41.8
	Minimum	36	35	32	28	37	38	32	36	44	38	33	29	34	22	14	21	30	30	22	30	41	43	39	26	27	28	24	30	26	27	31	31.1
Towanda.....	Maximum	47	45	43	47	45	54	54	55	53	46	45	49	61	40	32	46	43	36	55	45	55	44	44	39	37	37	35	43	35	33	45	48.4
	Minimum	38	35	30	24	38	38	34	34	44	40	30	23	39	26	14	24	32	24	21	28	37	40	38	26	20	30	25	28	24	19	31	30.1
Uniontown.....	Maximum	45	49	49	50	55	52	45	59	58	57	57	62	67	34	35	43	42	41	54	60	60	59	58	47	36	35	48	45	51	63	50.5	
	Minimum	40	31	35	34	47	33	34	40	55	53	33	34	24	17	30	27	28	25	25	53	53	46	30	30	28	32	34	29	29	48	34.9	
Warren.....	Maximum	44	43	46	45	46	46	40	55	55	44	41	52	52	30	29	38	38	32	35	45	48	44	48	40	34	34	38	40	35	40	52	42.2
	Minimum	36	37	30	30	39	36	32	32	44	39	30	24	30	18	14	14	32	26	22	35	40	35	35	25	25	28	30	28	25	34	30	40.0
Wellsboro.....	Maximum	43	44	42	46	45	49	44	40	53	44	42	45	57	38	31	44	42	36	42	51	55	50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum	35	30	23	23	35	33	30	29	40	37	30	25	35	20	10	20	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Williamsport.....	Maximum	49	46	46	47	45	54	45	50	50	48	48	47	59	57	33	48	46	42	43	43	52	52	45	44	40	39	36	42	40	39	40	45.6
	Minimum	39	34	39	30	39	39	37	34	45	43	36	31	35	27	18	22	23	32	25	25	39	44	41	32	26	32	28	31	32	28	34	32.9

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXVII. ANNUAL SUMMARY, 1923. No. 13.

GENERAL SUMMARY.

From a temperature standpoint there was nothing remarkable about 1923 until the month of December when the mean temperature for the State was 9.0° above the normal, and just equalled the previous warmest December on record. From a precipitation standpoint there was an unusual spring and summer drought, the precipitation being below the normal from February to August inclusive. September rains helped to prepare the soil for the winter grains, but a normal water supply was not restored until December. The drought was most severe in the northern and eastern counties, while some of the southwestern counties received nearly a normal rainfall.

A moderate temperature deficiency extended from February to May inclusive, and in consequence the crop season opened a little late. This condition was an advantage in some ways, more especially for the fruit crop. The fruit buds remained dormant late enough so there was little damage by frost, and the yield of most fruits was good, although the quality was lowered in some places by lack of moisture. The late spring was followed by the driest June on record, and crops of all kinds suffered in most parts of the State. In the northern and eastern counties oats headed out at a height of from ten to twelve inches, and many fields had to be mowed and raked as the grain could not be cut with a binder. The winter grains were nearly matured before the effects of the drought became acute and they were not materially affected. Corn seemed to stand the summer drought the best of all crops, and gave fair returns. Pastures and grass lands suffered most of all and in midsummer there were many brown patches in both pastures and meadows. Vegetables and truck crops were reduced in yield, and the quality was far below the normal.

There were comparatively few severe local storms except in June and July when, despite the drought, there were local thundershowers that washed fields and flooded small creeks, and did considerable damage. These storms did little to relieve the drought generally. In one of these storms at Chambersburg there was a rainfall of four inches in 65 minutes. In July there were several heavy local thundershowers in the valley of the North Branch of the Susquehanna, while crops generally in the northeastern part of the State were burning up. At Catawissa there was a rainfall of 6.15 inches within 34 hours.

The winter grains received enough moisture to make a good growth, and the roots penetrated deeper into the soil than they would have done with a larger moisture content. The fields remained green in most places up to the end of the year, and in some places there was a notable growth in December on account of the mild temperatures. There was little snow covering in December, but not much frost in the ground.

COMPARATIVE ANNUAL DATA FOR THE STATE.

Year.	Temperature.		Precipitation.		Year.	Temperature.		Precipitation.	
	Highest.	Lowest.	Greatest total.	Least total.		Highest.	Lowest.	Greatest total.	Least total.
1888.....	100	-31	.....	.....	1907.....	98	-23	64.05	31.79
1889.....	96	-27	.....	.....	1908.....	104	-29	50.26	26.72
1890.....	101	-18	.....	.....	1909.....	100	-19	48.79	27.91
1891.....	100	-14	64.00	32.21	1910.....	99	-22	51.45	31.08
1892.....	103	-23	54.63	32.07	1911.....	105	-18	67.61	29.25
1893.....	102	-25	58.56	30.62	1912.....	100	-35	60.95	33.08
1894.....	103	-28	57.43	28.17	1913.....	102	-9	56.06	32.48
1895.....	104	-26	40.80	21.17	1914.....	101	-28	54.33	28.83
1896.....	101	-21	53.52	32.29	1915.....	99	-26	61.96	33.40
1897.....	103	-25	55.16	19.83	1916.....	103	-31	58.50	31.05
1898.....	107	-16	56.95	34.07	1917.....	105	-29	62.68	23.56
1899.....	101	-39	51.13	28.36	1918.....	108	-34	60.60	29.97
1900.....	104	-23	55.68	25.73	1919.....	104	-23	58.30	31.55
1901.....	107	-22	56.83	29.81	1920.....	99	-21	58.70	26.27
1902.....	100	-24	65.05	29.79	1921.....	104	-15	62.91	30.08
1903.....	99	-17	57.16	35.90	1922.....	100	-19	50.96	26.27
1904.....	99	-42	56.72	31.05	1923.....	103	-20	52.84	23.75
1905.....	99	-25	59.38	33.53					
1906.....	99	-21	61.56	32.55					

MONTHLY STATE DATA FOR 1923.

Month.	Temperature.				Precipitation.					
	Mean.	Depart- ure from normal.	Highest.	Lowest.	Average.	Depart- ure from normal.	Greatest.	Least.	Snow.	Depart- ure from normal.
January.....	29.1	+1.2	62	-17	4.26	+0.82	7.74	1.91	17.6	+6.6
February.....	24.6	-2.7	58	-20	2.16	-0.70	4.80	0.65	11.7	+1.3
March.....	37.0	-0.3	80	-8	2.49	-0.95	5.21	0.70	6.2	-0.8
April.....	48.3	-0.4	89	-5	2.94	-0.57	5.89	1.00	1.9	-0.9
May.....	58.3	-1.7	95	20	3.50	-0.37	7.43	1.23	0.6	+0.6
June.....	70.9	+3.3	103	32	2.73	-1.76	7.99	0.41	0.0	0.0
July.....	71.0	-1.0	100	32	4.24	-0.09	9.86	0.92	0.0	0.0
August.....	69.2	-0.8	96	30	3.10	-1.41	7.30	0.59	0.0	0.0
September.....	64.8	+1.2	92	22	3.55	+0.32	8.68	1.54	0.0	0.0
October.....	51.0	-1.2	87	12	2.38	-0.72	6.01	0.90	T.	0.0
November.....	40.7	-0.2	70	10	2.83	+0.41	6.84	1.55	0.3	-2.3
December.....	39.6	+9.0	71	1	4.99	+1.54	8.55	2.42	2.4	-6.8
Year.....	50.4	+0.5	103	-20	39.17	-3.60	9.86	0.41	40.7	-2.3

KILLING FROSTS OR FREEZING TEMPERATURE.

Stations.			Last in spring.	First in autumn.	Stations.			Last in spring.	First in autumn.
Allentown.....	Apr. 17	Oct. 6	Lawrenceville.....	May 24	Sept. 14	Lebanon.....	do. 1	Oct. 6	
Altoona.....	May 14	Sept. 14	Lewisburg.....	do. 11	do. 5	Lock Haven.....	do. 11	do. 22	
Beaver Dam.....	Apr. 24	Oct. 7	Lycippus.....	do. 10	Nov. 1	Lykens.....	do. 24	Sept. 16	
Biglerville.....	May 11	do. 7	Marcus Hook.....	Apr. 14	Oct. 28	Mauch Chunk.....	May 11	Sept. 18	
Bradford.....	do. 31	Sept. 14	Mifflintown.....	do. 11	Oct. 5	Montrose.....	do. 14	Sept. 15	
Bradys Bend.....	do. 25	Aug. 23	Muncy Valley.....	do. 18	do. 15	Narberth.....	Apr. 19	Oct. 7	
Brookville.....	do. 24	do. 23	Neshaminy Falls.....	May 11	do. 5	New Castle.....	do. 14	Sept. 15	
Bustleton.....	do. 11	Oct. 7	Newell.....	do. 9	Oct. 5	Palmerton.....	do. 11	do. 6	
Carlisle.....	Apr. 19	do. 7	Philadelphia (a).....	Apr. 10	Nov. 2	Phoenixville.....	May 1	Oct. 7	
Catawissa.....	May 11	Sept. 17	Pittsburgh.....	do. 10	do. 7	Quakertown.....	do. 11	Sept. 17	
Center Hall.....	do. 24	do. 16	Reading.....	Apr. 14	Nov. 2	Ridgway.....	May 24	Sept. 14	
Chambersburg.....	do. 11	Oct. 7	Saegertown.....	do. 24	do. 15	Scranton.....	do. 11	Oct. 7	
Claysville.....	do. 10	Sept. 16	Selinsgrove.....	do. 11	do. 5	Sharon.....	do. 10	Sept. 15	
Clearfield.....	do. 24	do. 17	Shawmont.....	Apr. 14	Nov. 1	Somersert.....	May 16	Sept. 16	
Coatesville.....	do. 11	Oct. 7	State College.....	do. 14	do. 16	Towanda.....	do. 24	do. 15	
Colebrook.....	do. 11	do. 6	Towanda.....	do. 10	Oct. 5	Uniontown.....	do. 14	do. 5	
Corry.....	do. 24	Sept. 15	Vandergrift.....	do. 24	Sept. 15	Warren.....	do. 14	do. 14	
Derry.....	do. 15	Oct. 5	Washington.....	do. 31	do. 15	Wellsboro.....	July 23	do. 17	
Ebensburg.....	do. 25	Aug. 23	West Bingham.....	Apr. 19	Nov. 1	West Chester.....	May 11	Sept. 15	
Emporium.....	do. 24	Sept. 17	Williamsport.....	do. 11	Nov. 1	York.....	do. 11	Nov. 1	
Ephrata.....	Apr. 19	Oct. 6							
Erie.....	do. 19	do. 31							
Franklin.....	May 14	Sept. 15							
George School.....	do. 11	Oct. 7							
Gettysburg.....	do. 11	do. 7							
Gordon.....	do. 24	Sept. 16							
Greensburg.....	do. 14	Oct. 5							
Greenville.....	do. 14	Sept. 14							
Grove City.....	do. 11	Oct. 7							
Hamburg.....	May 11	Nov. 1							
Hanover.....	Apr. 19	do. 2							
Harrisburg.....	do. 15	Aug. 24							
Hawley.....	May 24	Nov. 1							
Holtwood.....	Apr. 14	Oct. 5							
Huntingdon.....	May 24	do. 5							
Indiana.....	do. 11	Oct. 5							
Jersey Shore.....	May 13	do. 6							
Johnstown.....	do. 11	do. 6							
Lancaster.....	do. 11	do. 6							

Climatological Data for the Year 1923.

STATION.	Counties.	Elevation, feet.	Temperature (degrees Fahrenheit).						Precipitation (inches).							Sky.				Prevailing direction of wind.
			Length of record, years.	Annual mean.	Highest.	Date.	Lowest.	Date.	Length of record, years.	Total for the year.	Greatest monthly.	Month.	Least monthly.	Month.	Total snowfall (unmelted).	Number days with .01 or more.	Number clear days.	Number partly cloudy days.	Number cloudy days.	
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	11	.....	100	June 20	1	Jan. 5	12	38.49	5.35	Dec.	0.69	June	.....	129	.....	.....	w.
Altoona.....	Blair.....	1,615	27	49.3	94	do. 19	-3	Feb. 15	36	40.70	6.56	do.	1.26	Oct.	54.0	157	169	109	87	
Bustleton.....	Philadelphia.....	125	4	.....	100	do. 20	4	do. 8	4	41.35	4.68	Apr.	1.78	May	20.7	110	158	77	130
Carlisle.....	Cumberland.....	467	57	52.8	100	do. 20†	5	do. 18†	35	40.87	5.61	Sept.	1.26	Aug.	53.5	125	190	51	124	
Catawissa.....	Columbia.....	520	27	51.0	101	do. 20	-1	Jan. 31	27	39.75	7.28	July	1.20	Mar.	35.8	124	197	61	107	
Chambersburg.....	Franklin.....	580	24	51.9	98	do. 21	5	Feb. 8†	23	42.35	7.78	do.	1.64	Oct.	30.7	130	150	105	110	
Clearfield.....	Clearfield.....	1,120	14	50.4	101	do. 21†	-5	do. 24	14	41.45	7.56	Dec.	1.32	do.	70.1	135	176	87	102	
Coatesville.....	Chester.....	380	36	51.5	98	do. 20	2	do. 8	36	45.13	6.11	Aug.	1.58	July	30.2	119	132	145	88	
Colebrook.....	Lebanon.....	560	8	50.9	100	do. 20	3	do. 24	14	37.27	4.77	July	1.59	June	31.7	145	182	54	129	
Ephrata.....	Lancaster.....	380	23	52.9	98	do. 20	5	do. 8†	33	35.24	4.01	Apr.	1.71	do.	35.0	99	155	96	114	
Freeland.....	Luzerne.....	1,970	4	44.1	92	do. 20†	-10	do. 24	8	45.82	7.93	July	1.91	Nov.	36.5	153	127	105	133	
George School.....	Bucks.....	190	17	51.9	99	do. 20†	-3	do. 8	17	45.44	5.27	Sept.	1.82	May	35.1	123	.....	.....	w.
Gettysburg.....	Adams.....	600	48	53.3	101	do. 20†	5	do. 18	50	40.64	7.21	July	1.62	June	39.0	110	143	130	92	
Gordon.....	Schuylkill.....	840	20	48.8	96	do. 20	-3	Jan. 31	20	38.76	5.49	Jan.	1.74	Mar.	71.0	113	170	65	130	
Hanover.....	York.....	600	20	53.7	98	do. 20†	6	Feb. 18†	20	43.44	6.05	Aug.	1.74	Feb.	.....	131	199	87	79
Harrisburg.....	Dauphin.....	361	36	52.9	98	do. 21	7	do. 18	54	30.01	4.06	Sept.	0.73	Aug.	27.5	121	109	106	150	
Hawley.....	Wayne.....	900	5	47.6	96	do. 19†	-17	Jan. 31	5	40.66	5.53	Jan.	1.47	Mar.	.....	108	.....	.....	nw.
Holtwood.....	Lancaster.....	200	4	53.0	95	do. 20†	7	Feb. 15	8	35.71	4.69	do.	1.54	June	28.5	105	129	128	108	
Huntingdon.....	Huntingdon.....	650	36	50.7	100	do. 21	2	do. 6†	36	37.17	7.15	July	1.19	Oct.	.....	106	166	110	89
Lancaster.....	Lancaster.....	255	21	53.0	103	do. 20	6	do. 8†	36	38.81	4.71	Jan.	1.79	June	27.3	101	236	63	66	
Lawrenceville.....	Tioga.....	1,000	26	.....	96	do. 19†	-10	Jan. 31	26	23.75	2.85	do.	0.70	Mar.	.....	83	.....	.....	w.
Lebanon.....	Lebanon.....	469	35	.....	102	do. 20	5	Feb. 15	83	37.44	6.21	July	1.59	Aug.	36.5	127	176	108	81
Lewisburg.....	Union.....	450	48	51.4	101	do. 20†	-7	Jan. 31	49	41.61	8.06	do.	1.91	Mar.	56.5	128	150	88	127	
Lykens.....	Dauphin.....	680	9	50.7	101	do. 20	-3	Feb. 6	9	38.97	4.97	Sept.	1.45	do.	30.0	121	194	79	92	
Marcus Hook.....	Delaware.....	50	4	55.3	100	do. 24	6	do. 18	4	42.05	5.54	do.	0.96	June	16.6	106	.....	.....	nw.
Mauch Chunk.....	Carbon.....	600	34	50.2	98	do. 24†	-1	Jan. 31	34	42.47	5.41	Jan.	1.87	Feb.	53.4	114	190	53	122	
Mifflintown.....	Juniata.....	445	20	52.7	102	do. 21	3	Feb. 6	20	35.55	7.75	July	1.32	Aug.	48.0	131	153	53	159	
Montrose.....	Susquehanna.....	1,658	21	45.6	92	July 20	-8	Jan. 18†	20	34.64	4.65	May	0.65	Feb.	56.0	90	191	50	124	
Muncy Valley.....	Sullivan.....	1,045	12	47.4	98	June 20	-10	Feb. 24	12	42.62	5.72	July	1.29	do.	44.1	105	126	143	96	
Narberth.....	Montgomery.....	300	4	53.0	99	do. 21	6	do. 24	5	45.85	6.72	Aug.	1.27	June	29.7	125	161	78	126	
Neshaminy Falls.....	Bucks.....	60	9	51.1	100	do. 20†	-4	do. 8	9	41.20	5.04	Jan.	1.53	May	24.0	114	196	60	109	
Palmerton.....	Carbon.....	398	5	50.5	99	do. 24	-2	do. 19	7	33.01	4.54	May	1.03	Feb.	42.8	91	186	104	75	
Philadelphia (a).....	Philadelphia.....	117	52	55.3	99	do. 21†	10	do. 24	52	39.19	5.09	Apr.	0.65	June	19.1	121	121	117	127	
Philadelphia (d).....	Philadelphia.....	12	8	54.5	100	do. 21†	9	do. 24	8	43.42	7.06	Aug.	0.84	do.	17.9	95	.....	.....	sw.
Phoenixville.....	Chester.....	100	13	52.5	99	do. 20†	-2	do. 8	13	46.07	7.30	do.	0.95	do.	28.6	93	.....	.....	sw.
Quakertown.....	Bucks.....	496	37	49.7	97	July 21	-9	do. 8†	39	37.82	5.29	Sept.	1.11	do.	45.2	124	138	125	102	
Reading.....	Berks.....	325	46	53.2	101	June 20	8	do. 18	54	33.50	4.51	Dec.	0.54	do.	36.9	136	137	123	105	
Scranton.....	Lackawanna.....	805	28	49.6	95	do. 20	0	Jan. 31	29	36.16	4.72	July	1.58	Feb.	49.7	145	92	125	148	
Selinsgrove.....	Snyder.....	455	34	50.6	99	do. 20	-3	do. 31	35	34.70	5.08	Jan.	1.39	Mar.	47.7	111	166	90	109	
Shawmont.....	Philadelphia.....	51	7	.....	99	do. 21	9	Feb. 24	28	39.57	4.91	Apr.	0.75	June	20.8	99	191	99	75
State College.....	Center.....	1,217	36	48.1	94	do. 19†	-2	do. 6†	39	37.69	7.09	July	1.60	Oct.	56.4	122	129	124	112	
Towanda.....	Bradford.....	754	29	47.8	94	do. 21	-12	Jan. 31	29	28.02	3.51	June	1.18	Feb.	33.9	126	105	103	157	
Wellsboro.....	Tioga.....	1,419	44	.....	93	do. 25	-13	Feb. 24	59	24.22	3.12	Dec.	0.98	July	48.8	87	215	52	98
West Chester.....	Chester.....	455	69	.....	98	do. 21	5	do. 24	91	39.66	5.44	Aug.	1.19	June	21.6	116	202	89	74
Williamsport.....	Lycoming.....	521	34	51.1	101	do. 20	-1	do. 24	37	37.62	5.40	Sept.	1.88	do.	51.4	129	201	52	112	
York.....	York.....	400	24	52.8	98	do. 20	6	do. 18†	36	38.28	4.91	do.	1.26	Feb.	.....	110	191	80	94
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	10	52.8	99	do. 19	3	do. 18	31	37.21	5.99	Dec.	1.15	Oct.	19.7	145	119	71	175	
Bradford.....	McKean.....	1,427	7	46.3	94†	do. 23	-15	do. 24	9	38.90	5.77	do.	1.48	do.	60.9	157	126	109	130	
Bradys Bend.....	Armstrong.....	930	6	47.2	96	do. 21	-15	do. 24	6	37.22	6.48	do.	1.55	do.	39.8	133	130	92	143	
Brookville.....	Jefferson.....	1,173	13	45.8	101	do. 24	-5	do. 7†	33	33.68	5.59	do.	1.17	Apr.	33.5	.....	223	58	84
Claysville.....	Washington.....	1,150	20	51.9	98	do. 21	-3	do. 24	20	40.94	6.60	do.	1.27	Oct.	15.1	160	174	60	131	
Corry.....	Erie.....	1,430	12	46.7	92	do. 24	-12	do. 24	12	39.47	6.10	do.	1.64	do.	88.1	175	128	115	122	
Derry.....	Westmoreland.....	1,172	27	51.2	95	do. 21	-5	do. 18	27	46.43	5.82	do.	1.41	do.	44.5	160	128	129	108	
Ebensburg.....	Cambria.....	2,000	6	46.2	91	do. 21†	-10	do. 18	6	45.50	7.02	do.	1.69	do.	.....	137	171	86	108
Elk Lick.....	Somerset.....	2,680	6	48.3	89	do. 19	-1	do. 15	6	51.71	7.74	Jan.	1.92	do.	85.0	110	173	85	107	
Franklin.....	Venango.....	957	30	48.1	96	do. 23	-8	do. 24	51	35.53	5.65	Dec.	1.79	do.	34.0	141	170	29	166	
Greensburg.....	Westmoreland.....	1,150	16	.....	95	do. 21†	-1	do. 24	16	44.66	6.37	do.	1.76	do.	42.1	150	120	113	132
Greenville.....	Mercer.....	950	28	49.2	96	do. 21†	-6	do. 24	28	36.26	5.92	Jan.	1.55	do.	.....	96	.....	.....	sw.
Grove City.....	Mercer.....	1,256	17	.....	94	do. 22	-7	do. 24	17	41.43	6.84	Nov.	1.45	Apr.	34.9	147	.....	.....	sw.
Irwin.....	Westmoreland.....	884	24	.....	91	do. 21	-4	do. 24	27	39.26	5.68	Dec.	2.01	Oct.	.....	150	204	87	74
Johnstown.....	Cambria.....	1,184	33	51.9	100	do. 22	2	do. 18	42	52.84	6.31	do.	1.46	do.	56.8	186	112	141	112	
Lycippus.....	Westmoreland.....	1,420	31	52.0.																

Monthly and Annual Precipitation for the Year 1923, with Departures from the Normal.

STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.			
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.		
ALLENTOWN.	5.11	+1.46	2.34	-0.67	3.68	-0.30	3.14	-0.70	3.01	-0.61	0.69	-2.75	2.46	-2.59	2.40	-1.95	3.63	+0.28	4.57	+1.16	2.11	-0.29	5.35	+1.50	38.49	-5.46		
Bethlehem.	3.99	+0.41	2.43	-1.06	3.87	+0.23	.....	.....	2.74	-0.98	0.41	-3.76	3.15	-1.41	2.48	-1.84	4.10	+0.71	4.13	+0.90	.....	.....	3.58	+0.08	.....	.....
Bustleton.	4.51	.....	2.79	.....	3.57	.....	4.68	.....	1.78	.....	2.66	.....	3.66	.....	2.85	.....	3.72	.....	4.22	.....	2.33	.....	4.58	.....	41.35	.....	
Coatesville.	4.52	+0.55	2.53	-1.57	4.01	-0.35	5.89	+2.26	3.35	-0.68	1.59	-2.45	1.58	-3.44	6.11	+1.68	3.98	+0.08	4.11	+0.59	2.45	-0.74	5.01	+0.79	45.13	-3.28		
Conshohocken.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Doylestown.	1.18	+0.52	2.13	-1.73	4.31	+0.24	5.25	+1.27	2.31	-1.70	1.89	-2.11	4.01	-0.85	4.98	-0.55	4.69	+0.74	3.49	-0.46	2.93	-0.37	4.16	+0.14	44.36	-4.86		
Freeland.	6.69	.....	2.66	.....	2.03	.....	2.55	.....	4.81	.....	3.90	.....	7.93	.....	2.76	.....	3.29	.....	3.29	.....	1.91	.....	4.00	.....	45.82	.....	
George School.	4.92	+1.85	2.92	-0.18	3.86	+0.40	4.67	+1.07	1.82	-1.79	1.94	-1.29	5.13	+0.75	4.30	-0.30	5.27	+2.25	4.01	+0.76	2.32	-0.39	4.28	+0.47	45.44	+3.60		
Gouldsboro.	4.70	+2.46	1.93	-1.80	1.70	-1.56	2.61	-2.09	3.68	-0.37	5.57	+0.84	8.77	+3.10	1.95	-3.23	5.10	+1.78	3.18	-0.27	2.30	-0.53	4.27	+1.16	46.76	-0.51		
Graterford.	4.90	.....	3.03	.....	4.31	.....	4.08	.....	1.38	.....	0.76	.....	4.15	.....	2.79	.....	3.25	.....	2.72	.....	2.42	.....	4.17	.....	38.01	.....	
Hamburg.	3.55	-0.21	2.95	-0.44	3.89	-0.25	4.11	-0.14	3.08	.....	0.99	-3.23	2.40	-2.31	3.27	-2.09	6.72	+2.52	4.09	+0.03	3.28	+0.42	4.87	+1.02	43.20	-6.10	
Hawley.	5.53	+0.66	1.96	.....	1.47	.....	2.24	.....	3.23	.....	3.99	.....	4.53	.....	2.96	.....	4.36	.....	2.75	.....	2.65	.....	4.99	.....	40.66	.....	
Kennett Square.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lansford.	3.78	+0.40	1.48	-1.43	1.73	-1.78	1.95	-1.78	3.81	+0.36	2.11	-2.12	2.30	-2.36	3.21	-1.55	3.78	-0.04	3.78	-0.56	1.76	-0.55	5.73	+2.05	35.42	-9.36		
Marcus Hook.	4.54	.....	2.45	.....	3.06	.....	5.28	.....	1.54	.....	0.96	.....	3.51	.....	4.85	.....	5.54	.....	3.72	.....	2.22	.....	4.38	.....	42.05	.....	
Mauch Chunk.	5.41	+1.63	1.87	-2.00	2.50	-2.00	2.80	-1.12	4.15	+0.14	2.10	-2.20	3.03	-2.07	4.01	-0.96	3.85	-0.02	3.98	+0.22	3.60	+0.27	5.17	+0.93	42.47	-7.18		
Mount Pocono.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Narberth.	4.70	.....	2.82	.....	3.94	.....	5.48	.....	2.03	.....	1.27	.....	3.14	.....	6.72	.....	3.88	.....	4.07	.....	4.38	.....	5.02	.....	45.85	.....	
Neshaminy Falls.	5.04	.....	2.06	.....	3.62	.....	4.59	.....	1.53	.....	3.27	.....	3.39	.....	2.96	.....	4.12	.....	4.05	.....	2.05	.....	4.52	.....	41.20	.....	
Palmerton.	3.47	.....	1.03	.....	1.85	.....	2.62	.....	4.54	.....	1.79	.....	2.53	.....	3.59	.....	2.93	.....	3.21	.....	2.71	.....	2.74	.....	33.01	.....	
Philadelphia (a).	4.78	+1.37	2.71	-0.67	3.58	+0.13	5.09	+2.18	1.23	-1.97	0.65	-2.65	3.51	-0.82	4.26	-0.35	3.64	+0.26	3.77	+0.67	1.91	-1.15	4.06	+1.02	39.19	-1.98		
Philadelphia (d).	5.60	.....	2.40	.....	4.18	.....	4.15	.....	1.28	.....	0.84	.....	3.91	.....	7.06	.....	4.73	.....	3.09	.....	1.86	.....	4.32	.....	43.42	.....	
Phoenixville.	3.89	.....	2.41	.....	5.21	.....	4.52	.....	2.44	.....	0.95	.....	3.91	.....	7.30	.....	4.67	.....	4.02	.....	1.98	.....	4.77	.....	46.07	.....	
Pottstown.	3.66	+0.23	2.25	-1.28	3.39	-0.48	3.34	+0.13	2.55	-1.82	0.49	-3.32	3.58	-1.86	3.87	-0.06	4.26	+0.93	4.10	+1.01	2.10	-1.12	5.39	+1.72	38.98	-5.92		
Pottsville.	5.34	+1.41	2.14	-1.41	2.11	-2.00	1.99	-1.67	4.05	-0.31	1.93	-2.35	3.23	-1.81	3.07	-2.19	5.74	+1.84	3.67	+0.36	3.08	-0.21	4.85	+0.81	41.20	-8.25		
Quakertown.	3.31	-0.18	2.32	-0.44	3.82	+0.11	3.31	+0.08	2.34	-1.68	1.11	-2.55	2.52	-2.30	2.71	-1.58	5.29	+1.63	4.24	+0.87	2.21	-0.95	4.64	+1.10	37.82	-6.89		
Reading.	3.52	0.00	2.38	-1.12	3.56	+0.02	3.24	+0.02	2.43	-0.94	0.54	-3.13	2.89	-1.33	1.27	-3.21	3.34	-0.31	3.61	+0.35	2.21	-0.91	4.51	+1.19	33.50	-9.37		
Shawmont.	4.61	+1.36	2.66	-0.52	3.44	-0.23	4.91	+1.74	1.72	-1.74	0.75	-2.72	2.76	-1.83	2.42	-0.89	3.80	+0.57	3.70	+0.36	2.67	-0.21	4.31	+0.42	39.57	-3.69		
West Chester.	3.99	+0.15	2.30	-1.60	3.43	-0.64	4.49	+0.61	2.86	-1.59	1.19	-3.00	2.36	-2.47	5.44	+0.76	4.37	+0.45	2.97	-0.77	1.84	-1.79	4.42	+0.33	39.66	-9.46		
White Haven.	6.06	+3.24	1.70	-1.10	1.93	-1.40	2.67	-0.72	2.87	-0.92	3.83	-0.37	7.30	+2.31	2.61	-1.66	3.27	+0.50	2.94	-0.49	2.68	-0.55	2.96	-0.55	40.82	-1.71		
Altoona.	3.75	+1.25	1.68	-0.43	2.56	-0.14	3.87	+1.00	3.87	-0.15	2.14	-1.78	3.30	+3.03	2.20	-1.19	2.85	+0.07	1.26	-1.23	3.66	+1.75	6.56	+4.21	40.70	+6.39		
Ansonia.	1.91	-0.50	1.28	-0.65	0.84	-1.43	2.18	-1.46	3.90	+0.02	1.69	-2.46	0.92	-2.30	4.09	+0.74	2.31	-0.90	1.91	-1.30	1.55	-0.22	3.21	+1.33	25.79	-9.13		
Bellefonte.	4.09	+1.30	2.26	-0.26	1.27	-2.53	2.92	-1.13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Blossville.	4.45	.....	1.71	.....	2.04	.....	3.94	.....	2.94	.....	5.26	.....	3.91	.....	8.11	.....	6.53	.....	1.60	.....	2.83	.....	5.61	.....	43.93	.....	
Carlisle.	4.65	+1.53	2.35	-0.62	2.10	-1.44	3.00	-0.33	2.36	-1.47	5.24	+1.40	5.50	+1.64	1.26	-3.70	5.61	+1.99	2.27	-0.99	2.33	-0.86	4.20	+1.19	40.87	-1.66		
Catawissa.	4.20	+0.88	1.77	-0.91	1.20	-1.85	2.41	-1.00	3.47	-0.11	3.21	-0.68	7.28	+3.51	1.80	-2.32	5.44	+2.04	3.28	+0.18	2.07	-0.64	3.62	+0.62	39.75	-0.28		
Cedar Run.	3.33	.....	1.27	.....	1.68	.....	2.34	.....	3.68	.....	1.31	.....	1.82	.....	2.93	.....	1.95	.....	1.56	.....	2.21	.....	3.48	.....	27.56	.....	
Center Hall.	4.37	+1.82	1.29	-1.01	0.92	-2.33	1.30	-1.84	7.43	+2.65	2.72	-1.28	.....	.....	.....	.....	3.66	+0.67	1.32	-1.73	1.78	-0.24	6.16	+3.41	.....	.....
Clearfield.	3.67	-0.17	3.10	+0.41	2.37	-1.20	2.68	-0.73	4.21	-0.57	2.07	-2.99	4.68	+0.68	2.88	-2.26	2.92	-0.86	1.32	-2.00	3.99	+1.15	7.56	+4.47	41.45	-4.07		
Colebrook.	3.84	+0.43	2.17	-0.71	2.84	-0.96	2.93	-1.27	2.20	-1.03	1.59	-2.50	4.77	+0.73	2.16	-3.42	4.32	+0.90	4.01	+1.04	2.29	-0.33	4.15	+0.43	37.27	-6.69		
Driftwood.	4.90	.....	2.39	.....	1.68	.....	2.22	.....	4.57	.....	3.73	.....	2.53	.....	2.56	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Emporium.	4.55	+1.02	3.16	+0.29	2.35	-1.37	2.59	-0.74	5.23	+0.78	2.05	-2.48	3.04	-1.40	2.27	-1.80	1.12	-2.18	2.91	+0.20	5.45	+2.19
Ephrata.	3.65	+0.66	2.08	-1.0																								

Monthly and Annual Precipitation for the Year 1923, with Departures from the Normal.—Continued.

STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.		
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	
Franklin	4.90	+1.28	2.13	-0.76	2.07	-1.38	1.96	-1.07	4.11	+0.62	2.08	-2.69	2.82	-1.66	1.86	-1.94	3.06	-0.43	1.79	-1.32	3.10	+0.09	5.65	+2.33	35.53	-6.93	
Freeport	5.07	+1.22	2.51	-0.65	3.14	-0.49	3.12	-0.20	5.02	+1.14	5.52	+1.26	4.23	+0.05	2.72	-1.00	2.65	-0.22	1.45	-1.44	4.26	+1.37	7.24	+3.86	46.93	+4.90	
Greensburg	4.21	+0.46	3.43	+0.57	2.80	0.00	3.58	-0.07	4.40	+0.67	4.75	+0.65	3.53	-0.26	3.14	-1.23	3.12	-0.08	1.76	-1.37	3.57	+1.61	6.37	+3.22	44.66	+4.17	
Greenville	5.92	+2.20	1.87	-0.72	1.73	-1.93	2.09	-1.18	4.37	+0.77	1.85	-2.36	2.90	-1.46	1.82	-1.94	3.88	+0.66	1.55	-2.10	3.58	+0.88	4.70	+1.71	36.26	-5.47	
Grove City	4.06	+0.54	1.94	-0.40	1.85	-1.18	1.45	-2.58	5.41	+1.61	2.77	-1.27	5.18	+0.96	2.36	-1.31	3.27	+0.19	1.89	-1.69	6.84	+4.70	4.41	+1.56	41.43	+1.13	
Herrs Island Dam	3.76	+0.71	2.16	-0.22	2.33	-1.17	3.67	+0.60	3.69	+0.87	4.46	+0.28	6.38	+2.91	3.74	+0.32	1.88	-0.48	0.90	-1.81	2.18	+0.41	5.74	+2.93	40.89	+5.35	
Indiana	6.12	+2.19	2.79	-0.14	1.79	-2.14	.....	.....	.....	.....	4.07	-0.76	1.99	-2.42	0.59	-3.92	2.98	-0.90	2.83	-0.79	3.02	+0.32	5.09	+1.60	.....	.....
Ingram	3.88	.....	2.23	.....	2.42	.....	.....	.....	3.93	.....	4.13	.....	6.35	.....	3.21	.....	1.90	.....	1.18	.....	2.85	.....	6.14	.....	.....	.....
Irwin	3.19	+0.15	2.37	+0.12	2.61	-0.93	2.82	-0.73	4.44	+1.20	2.38	-2.27	3.75	-0.41	4.64	+0.57	2.91	+0.14	2.01	-0.82	2.46	+0.20	5.68	+2.73	39.26	+0.15	
Johnstown	5.34	+1.05	3.12	-0.63	4.04	0.00	4.19	+0.23	3.41	-1.18	5.04	-0.15	6.26	+1.86	4.92	+0.37	4.70	+1.20	1.46	-1.53	4.05	+1.13	6.31	+2.66	52.84	+5.01	
Ketner	4.19	.....	2.41	.....	1.97	.....	1.97	.....	4.47	.....	2.62	.....	2.61	.....	2.51	.....	3.59	.....	1.52	.....	3.38	.....	5.25	.....	36.55	.....
Linesville	4.63	.....	1.60	.....	2.36	.....	2.02	.....	3.51	.....	2.34	.....	2.01	.....	3.15	.....	2.57	.....	1.64	.....	3.69	.....	4.92	.....	34.44	.....
Lock No. 4	3.36	+0.17	2.13	-0.60	2.79	-0.51	3.43	+0.26	3.18	-0.49	2.13	-1.88	2.96	-1.39	2.88	-0.74	2.34	-0.44	1.74	-1.02	2.88	+0.48	6.43	+3.54	36.25	-2.62	
Lycippus	4.96	+0.89	3.26	+0.22	3.88	+0.14	4.31	+0.53	3.31	-0.65	4.74	+0.25	5.67	+0.63	3.03	-1.28	1.88	-1.15	2.20	-0.85	3.44	+0.88	6.31	+2.62	46.99	+2.23	
Martin	3.46	.....	2.39	.....	3.03	.....	3.78	.....	2.68	.....	5.85	.....	4.85	.....	4.76	.....	2.06	.....	1.26	.....	3.38	.....	4.71	.....	42.21	.....
New Castle	3.95	+1.04	1.56	-0.85	3.82	+1.07	1.69	-1.24	4.43	+1.13	2.47	-1.97	4.76	+0.62	3.61	+0.40	2.86	-0.28	0.93	-1.81	2.31	+0.65	4.98	+2.52	37.87	+1.28	
Newell	2.51	.....	1.99	.....	2.47	.....	2.90	.....	2.66	.....	3.34	.....	4.69	.....	2.11	.....	1.91	.....	1.37	.....	2.74	.....	4.70	.....	33.39	.....
North Shenango	5.65	.....	1.59	.....	3.09	.....	1.68	.....	3.34	.....	2.09	.....	2.38	.....	2.38	.....	1.54	-1.76	1.62	-1.26	3.72	+0.87	7.29	+4.11	38.42	-4.09
Parkers Landing	5.29	+1.88	2.56	-0.52	2.24	-1.34	1.89	-1.67	4.40	+0.58	2.62	-1.72	3.28	-1.06	1.97	-2.20	1.54	-1.76	1.62	-1.26	3.72	+0.87	7.29	+4.11	38.42	-4.09	
Pennline	3.57	.....	1.42	.....	2.36	.....	1.84	.....	3.81	.....	2.27	.....	2.46	.....	2.93	.....	4.30	.....	1.57	.....	3.28	.....	4.44	.....	34.25	.....
Pittsburgh	3.49	+0.62	2.18	-0.48	2.15	-0.86	3.82	+0.92	3.34	+0.04	4.28	+0.39	6.74	+2.32	4.24	+1.06	1.62	-0.86	1.05	-1.31	2.39	-0.16	6.22	+3.49	41.52	+5.17	
Ridgway	4.04	+1.27	1.58	-0.81	2.00	-1.37	2.24	-0.62	4.57	+0.39	1.33	-3.10	2.69	-1.28	2.49	-0.95	2.27	-0.61	1.24	-1.98	2.67	+0.03	5.44	+2.90	32.56	-6.13	
Saegertown	4.41	+1.04	1.83	-1.20	2.48	-0.92	1.86	-1.48	4.52	+0.07	2.48	-1.87	3.69	-0.56	2.35	-1.78	3.29	-0.26	2.16	-1.44	3.84	+0.56	6.25	+2.99	39.16	-4.85	
Saltsburg	5.13	+1.35	2.69	-0.30	2.76	-0.43	3.39	+0.06	4.25	+0.83	5.50	+1.48	5.23	+1.28	2.86	-1.04	5.15	+1.82	1.71	-1.46	3.44	+1.34	6.44	+3.14	48.55	+8.07	
Sharon	3.09	.....	1.14	.....	1.82	.....	1.18	.....	3.81	.....	1.47	.....	3.97	.....	3.12	.....	2.99	.....	1.16	.....	2.59	.....	4.31	.....	30.65	.....
Somerset	5.57	+0.81	4.48	+0.50	3.23	-1.11	3.64	-1.00	2.11	-2.91	7.83	+2.69	6.70	+2.26	3.13	-1.59	2.26	-1.41	1.82	-1.30	4.13	+0.67	6.95	+3.00	51.85	+0.61	
Springdale	4.69	+1.01	2.23	-0.29	2.50	-0.91	3.14	-0.14	4.54	+0.98	5.30	+1.04	6.88	+3.09	2.62	-1.69	3.27	+0.08	1.20	-2.12	3.07	+1.04	7.22	+4.05	46.66	+6.14	
Stoyestown	5.38	.....	2.84	.....	3.24	.....	4.42	.....	2.60	.....	6.47	.....	7.19	.....	4.11	.....	2.84	.....	1.83	.....	.....	.....	.....	.....	.....	.....
Summit	3.76	.....	2.12	.....	2.87	.....	1.63	.....	3.89	.....	2.89	.....	2.33	.....	2.93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tionesta	4.85	.....	2.18	.....	1.81	.....	2.14	.....	4.65	.....	.....	.....	1.85	.....	2.31	.....	3.39	.....	.....	.....	.....	.....	.....	.....	.....	.....
Turnerville	4.60	.....	1.24	.....	2.20	.....	1.00	.....	2.65	.....	3.97	.....	2.25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Uniontown	3.68	-0.17	2.50	-0.63	3.26	-0.70	3.97	+0.22	2.62	-1.45	4.59	-0.32	4.44	-0.62	4.14	-0.60	2.86	-0.32	1.97	-1.24	3.20	+0.09	5.08	+1.48	42.31	-4.35	
Vandergrift	3.74	.....	.....	.....	2.88	.....	3.36	.....	4.82	.....	6.63	.....	9.86	.....	3.49	.....	2.00	.....	1.32	.....	2.53	.....	7.40	.....	.....	.....
Warren	2.55	-0.38	1.42	-1.23	1.54	-1.59	1.75	-1.76	3.81	-0.64	1.74	-2.58	3.11	-1.72	1.87	-2.23	2.59	-1.04	1.03	-2.42	3.13	-0.20	3.84	+0.73	28.38	-15.06	
Washington	3.13	.....	1.85	.....	3.01	.....	3.59	.....	3.21	.....	6.03	.....	3.65	.....	2.69	.....	2.64	.....	1.52	.....	3.18	.....	6.19	.....	40.69	.....
Waynesburg	3.01	.....	1.76	.....	.....	.....	4.16	.....	2.58	.....	3.65	.....	6.03	.....	4.36	.....	3.65	.....	1.61	.....	3.97	.....	5.21	.....	.....	.....
Westford	4.32	.....	1.36	.....	2.71	.....	1.33	.....	3.66	.....	1.57	.....	2.19	.....	2.70	.....	3.53	.....	1.64	.....	3.81	.....	5.07	.....	33.89	.....
West Newton	2.71	-0.78	2.07	-0.99	2.18	-1.45	3.00	-0.32	3.51	-0.05	2.03	-2.12	3.50	-0.99	4.00	+0.05	2.68	+0.08	1.43	-1.26	2.60	+0.28	6.16	+2.87	35.87	-4.68	
POTOMAC BASIN.																											
Arendtsville	3.36	.....	1.78	.....	2.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chambersburg	4.44	+1.85	1.92	-0.99	2.35	-0.65	2.47	-0.37	3.62	-0.03	1.67	-2.34	7.78	+4.50	3.61	-0.63	5.16	+2.43	1.64	-1.56	2.87	+0.22	4.81	+2.19	42.35	+4.62	
LAKE BASIN.																											
Erie	2.67	-0.36	1.45	-1.40	1.89	-0.77	2.23	-0.17	2.62	-0.81	1.17	-2.58	0.93	-2.28	1.43	-1.83	3.52	+0.03	1.35	-2.45	2.45	-1.16	4.72	+1.66	26.43	-12.12	
West Bingham	3.27	.....	1.30	.....	1.52	.....	2.45	.....	4.14	.....	3.11	.....	2.46	.....	.....	.....	3.12	.....	1.77	.....	2.11	.....	4.30	.....	.....	.....

Monthly and Annual Mean Temperatures for the Year 1923, with Departures from the Normal.

STATIONS.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.
Atlantic Drainage.																										
Altoona	27.6	+0.3	24.4	-1.4	36.7	-0.6	47.4	-0.8	57.0	-2.4	69.9	+3.7	68.9	-2.2	68.2	-1.4	61.7	-1.0	50.4	-1.5	39.8	-1.0	39.2	+10.2	49.3	+0.2
Bethlehem	31.7	+1.8				+0.4			61.8	-1.2	73.6	+3.8			71.8	-1.9	68.2	+2.0					42.0	+8.9		
Biglerville							50.0		59.4		74.1		73.8				66.2		52.9		41.2		41.1			
Bustleton	29.6				38.7		51.8		62.0		74.0		73.4		72.8		68.8		55.0		43.2		41.6			
Carlisle	30.2	+2.3	27.0	-2.4	39.7	+2.2	52.2	0.0	61.6	+0.2	74.2	+3.3	73.4	-1.4	72.4	-0.3	67.2	+2.5	53.4	+1.1	41.1	+0.4	40.8	+9.5	52.8	+1.5
Catawissa	28.9	+0.8	25.4	-3.7	37.5	-0.1	50.0	-1.3	58.1	-3.3	72.0	+4.3	72.2	-0.5	70.0	-0.3	65.4	+1.9	51.6	-2.0	41.2	-1.2	39.8	+8.2	51.0	+0.2
Center Hall	27.6	+2.2	22.5	-3.4	37.3	+1.5	47.6	-1.3	56.4	-3.4	71.4	+5.3					62.5	+0.5	52.6	+1.2			40.2	+11.2		
Chambersburg	30.1	+1.4	27.5	-3.1	39.2	+0.8	50.0	+0.2	59.2	-2.0	72.2	+2.8	72.6	-2.1	71.0	-1.2	66.0	+0.1	52.3	-0.5	41.2	-0.2	41.0	+8.1	51.9	+0.4
Clearfield	28.8	+1.9	25.6	-1.9	37.8	+0.3	47.8	-0.5	58.0	-1.8	71.7	+4.4	71.6	+0.1	69.1	-0.8	65.2	+2.0	50.3	-2.7	40.4	-0.3	38.2	+9.5	50.4	+0.9
Coatesville	29.0	-1.4	25.4	-4.5	38.4	-1.0	50.0	-0.8	59.8	-1.9	73.3	+3.4	73.2	-1.5	71.4	+1.7	66.8	+0.7	52.0	-2.3	40.2	-2.7	38.8	+5.8	51.5	-0.4
Colebrook	29.4		25.3		37.0		49.2		59.4		71.6		72.4		69.6		65.2		52.0		40.4		39.0		50.9	
Emporium	27.2	+1.4	21.2	-3.5	34.0	-1.0			54.3	-4.4	67.9	+1.7	67.2	-3.0	65.8	-2.1					38.4	-0.8	37.7	+8.6		
Ephrata	31.0	+0.7	26.7	-1.4	40.2	+1.2	51.2	+1.2	61.4	+0.5	73.5	+5.5	74.5	+0.5	72.2	+0.4	67.5	+2.0	53.4	-1.7	42.6	+0.2	40.8	+9.5	52.9	+1.6
Everett											71.6	+4.7	69.6	-2.1	68.8	-1.1	64.3	+1.5	49.8	-2.3						
Freeland	21.6		18.0		29.2		42.2		53.0		67.0		66.2		63.4		58.8		44.8		33.8		31.6		44.1	
George School	29.5	-1.3	25.6	-4.1	39.0	-0.2	50.0	-0.1	59.8	-1.2	72.8	+5.1	71.8	-1.8	70.0	-1.4	66.3	+1.4	54.1	-0.8	43.1	+0.5	40.9	+8.6	51.9	+0.4
Gettysburg	31.8	+2.8	29.0	-1.3	41.0	+1.8	51.6	+1.2	60.6	-0.7	74.2	+4.6	74.2	+0.2	72.2	+0.5	67.2	+2.2	53.6	+1.4	42.6	+1.3	42.0	+10.3	53.3	+2.0
Gordon	27.0	+0.6	22.5	-2.8	35.6	-0.3	48.1	+0.2	56.6	-1.9	69.4	+4.2	69.4	-0.8	67.5	-0.7	63.0	+1.2	49.4	-1.3	39.0	0.0	38.2	+9.7	48.8	+0.7
Hamburg	28.4	-0.3	24.2	-4.6	36.4	-2.0	48.8	-1.6	61.0	-0.7	72.4	+2.9	73.0	-0.9			65.4	-0.1	51.4	-2.5	38.6	-3.6	39.0	+7.0		
Hanover	32.8	-0.1	29.2	-2.5	41.9	+0.3	51.7	-1.3	61.0	-2.9	74.2	+3.6	74.2	-1.2	72.3	-1.3	67.4	+0.2	53.8	-2.3	43.0	-1.2	42.7	+8.9	53.7	0.0
Harrisburg	31.2	+2.5	27.0	-2.9	38.4	+0.6	51.3	+0.6	61.7	0.0	74.0	+3.7	74.2	-0.3	71.8	-0.3	67.2	+2.3	54.0	0.0	42.6	+0.9	41.8	+9.0	52.9	+1.3
Hawley	23.4		20.4		32.9		47.2		56.2		68.5		69.6		66.6		62.2		48.6		39.2		36.0		47.6	
Holtwood	32.6		27.6		38.8		50.5		60.6		73.3		73.6		72.0		68.4		54.4		43.2		41.0		53.0	
Huntingdon	29.4	+0.8	27.0	-1.4	38.8	+0.5	46.8	-2.7	57.6	-3.1	71.2	+3.0	71.0	-1.2	70.0	-0.7	65.1	+0.8	50.5	-2.0	40.4	-1.1	40.6	+9.1	50.7	+0.2
Jersey Shore	28.2		24.6		38.0		50.8		59.4		72.7		72.5		70.4		66.1									
Kennett Square									60.6	-0.7	74.0	+5.1	74.6	+2.7	71.9	0.0	68.2	+2.0	55.0	+0.4						
Lancaster	31.8	+2.2	28.7	-1.1	40.2	+2.2	51.0	+0.2	60.2	-0.8	73.0	+2.9	73.8	+0.4	72.2	-0.5	67.4	+2.9	53.4	0.0	42.4	-0.7	41.8	+8.4	53.0	+1.4
Lawrenceville	25.4	+0.8	22.2	-0.8	33.2	-0.8	46.4	+0.6	54.0	-3.5	69.2	+4.0	69.4	-0.8			63.0	+1.7	48.6	-1.9	38.8	+0.1	37.6	+10.2		
Lebanon	29.8	+0.8	25.2	-3.3	37.1	-1.5	50.0	-0.5	59.9	-1.1	73.7	+4.4	73.8	-0.2	71.4	-0.6	66.6	+1.4			42.2	0.0	39.7	+7.8		
Lewisburg	28.1	+2.7	23.9	-1.9	37.7	+2.4	50.6	+2.4	59.0	+0.5	73.4	+6.2	73.4	+1.9	71.3	+2.4	66.5	+4.5	51.8	+1.6	40.8	+1.7	40.4	+11.4	51.4	+3.0
Lykens	28.3		24.4		37.9		49.2		58.2		70.6		71.6		70.6		65.4		52.0		40.6		40.0		50.7	
Marcus Hook	34.4		29.0		42.8		54.3		64.0		76.1		75.4		73.8		69.9		54.8		44.8		44.2		55.3	
Mauch Chunk	27.6	+0.2	23.8	-3.2	35.9	-0.9	49.2	+0.4	58.0	-2.1	71.0	+3.2	71.7	-0.6	68.6	-1.7	65.4	+1.4	52.0	-0.3	41.0	+0.4	38.8	+8.3	50.2	+0.4
Mifflintown	30.6	+3.0	26.4	-0.3	39.7	+1.7	51.8	+2.0	60.6	-0.1	74.0	+6.2	74.0	+1.3	71.6	+1.0	66.4	+2.6	52.8	+0.4	42.4	+1.8	42.0	+11.8	52.7	+2.6
Montrose	20.2	-2.3	17.9	-2.4	30.2	-0.9	45.8	+1.7	55.7	+0.7	66.8	+4.1	67.2	-1.0	65.2	-1.7	59.9	-0.2	47.3	-1.7	36.6	-0.3	33.8	+8.2	45.6	+0.4
Muncy Valley	24.6		20.4		33.4		45.7		55.1		68.6		69.1		66.0		62.1		49.0		38.8		36.2		47.4	
Narberth	31.4		27.3		39.6		50.6		60.6		73.8		73.0		71.6		68.0		54.7		43.5		41.8		53.0	
Neshaminy Falls	29.5		24.2		37.2		49.3		59.2		72.6		71.5		70.4		66.5		53.4		41.1		38.8		51.1	
Palmerston	26.6		24.3		37.4		50.0		58.4		72.6		72.8		69.6		65.7		51.3		39.7		37.6		50.5	
Philadelphia (a)	34.4	+1.8	30.0	-3.9	41.2	+0.4	52.6	+0.5	62.6	-0.3	75.8	+4.4	75.2	-1.0	73.8	-1.0	69.6	+1.6	57.2	-0.6	46.4	+0.7	44.6	+8.3	55.3	+0.9
Philadelphia (d)	33.0		28.8		40.2		52.2		62.6		75.6		74.9		73.7		69.3		56.4		45.0		42.8		54.5	
Phoenixville	30.8		26.6		40.0		51.0		61.4		74.4		74.1		70.7		67.2		52.8		41.3		39.4		52.5	
Quakertown	27.6	+0.6	23.6	-4.6	36.9	+0.6	48.8	+0.4	58.6	-1.0	70.1	+1.9	70.0	-2.5	67.6	+0.4	64.6	+1.0	50.4	-1.7	39.8	-1.2	38.0	+6.9	49.7	+0.1
Reading	31.1	+1.8	26.8	-2.0	38.8	-1.2	50.9	+0.6	61.6	-0.9	74.8	+5.0	74.4	-1.1	72.5	+0.1	67.5	+1.2	54.5	-0.2	43.7	+1.2	42.0	+9.8	53.2	+1.2
Scranton	26.8	+1.3	23.0	-3.9	34.2	-0.7	48.3	+1.2	58.1	-0.7	70.2	+3.0	70.8	-1.0	68.4	-0.9	64.0	+1.8	51.6	+0.2	41.4	+2.3	38.7	+8.9	49.6	+1.0
Selinsgrove	27.3	-1.6	25.2	-1.9	36.8	-1.4	48.9	-1.0	58.1	-3.0	71.7	+2.7	71.8	-1.7	69.6	-1.9	65.6	+1.2	52.2	-0.4	40.8	-0.7	39.7	+8.3	50.6	-0.2
Shawmont	32.4		28.1		40.7		52.0		62.3		74.5		74.0		67.2				54.2		42.4		40.2			
State College	26.6	+0.3	23.1	-2.4.4																						

COOPERATIVE AND RAINFALL OBSERVERS.

Stations.	Observers.	Stations.	Observers.	Stations.	Observers.
Allentown.....	John A. Frick.	George School.....	N. W. Swayne.	Palmerton.....	Frank G. Breyer.
Altoona.....	Lewis E. Biller.	Gettysburg.....	Col. E. B. Cope.	Parkers Landing.....	Henry Turk.
Ansonia.....	Paul H. Mulford.	Girardville.....	Girard Water Co.	Penn Line.....	Retta Crumb.
Arendtsville.....	R. C. Walton.	Gordon.....	Capt. J. G. Johnson.	Philadelphia.....	U. S. Weather Bureau.
Beaver Dam.....	F. H. McCullough.	Gouldsboro.....	Gustav Holtz.	Philadelphia.....	Commandant, Navy
Beaver Falls.....	W. Edward Eakin.	Graterford.....	C. K. Kulp.	Navy Yard.....	Yard.
Bellefonte.....	Western Penitentiary.	Greensburg.....	Westmoreland Water Co.	Phoenixville.....	N. Springfield Water Co.
Bethlehem.....	E. Eugene McCole.	Greenville.....	Water Supply Com.	Pittsburgh.....	U. S. Weather Bureau.
Biglerville.....	R. C. Walton.	Grove City.....	Prof. H. W. Harmon.	Pottstown.....	William A. Stephan.
Blossville.....	A. G. Mountz.	Hamburg.....	State Sanatorium.	Pottsville.....	John H. Strauch.
Bradford.....	B. A. Wise, C. E.	Hanover.....	Mrs. Mabel Wolcott.	Quakertown.....	John E. Benner.
Bradys Bend.....	E. R. Dewey.	Harrisburg.....	U. S. Weather Bureau.	Reading.....	U. S. Weather Bureau.
Brookville.....	John Fawcett.	Hawley.....	J. S. Pennell.	Renovo.....	H. L. Baird.
Bustleton.....	Agr. Experiment Station.	Herr's Island Dam.....	Victor W. Phillips.	Ridgway.....	Earl Overholser.
Carlisle.....	Clarence E. Miller.	Holtwood.....	H. W. Lowy, C. E.	Saegertown.....	J. G. Apple.
Catawissa.....	H. H. Yetter.	Huntingdon.....	Prof. W. J. Swigart.	Saltsburg.....	Thomas M. Duncan.
Cedar Run.....	C. R. Nivison.	Indiana.....	Harry Herlinger.	Scranton.....	U. S. Weather Bureau.
Center Hall.....	S. W. Smith.	Ingram.....	W. R. Gormly.	Selinsgrove.....	Prof. T. C. Houtz.
Chambersburg.....	Wm. B. Spear.	Irwin.....	W. F. Gallagher.	Sharon.....	J. K. Harris.
Clarion.....	Benjamin O. Cyphert.	Jersey Shore.....	C. B. McCullough.	Shawmont.....	Winfield S. Guiles.
Claysville.....	J. L. Melvin.	Johnstown.....	E. C. Lorentz.	Somerset.....	William M. Schrock, C. E.
Clearfield.....	E. W. Hess, C. E.	Kennett Square.....	Wm. P. Mercer.	Springdale.....	James C. Patton.
Cloe.....	Frank McElwain.	Ketner.....	J. Nelson.	State College.....	C. A. Kern.
Clymer.....	Thomas Fleitz.	Lancaster.....	C. K. Wills.	Stoystown.....	H. J. Penrod.
Coatesville.....	Prof. W. T. Gordon.	Lansburg.....	Lehigh Coal & Nav. Co.	Summit.....	L. E. Dickey.
Colebrook.....	William A. Rorer.	Lawrenceville.....	C. P. Darling.	Sunbury.....	Chas. E. Frymoyer.
Confluence.....	Grant Pyle.	Lebanon.....	S. B. Benzing.	Tionesta.....	J. R. Clark.
Conshohocken.....	Russell C. Erb.	Lewistown.....	Prof. Wm. G. Owens.	Towanda.....	Hiram E. Bull, C. E.
Coraopolis.....	E. B. Weigle.	Linesville.....	Water Supply Com.	Turnerville.....	S. A. Marvin.
Corry.....	N. R. Dickson.	Lloyd.....	M. L. Fish.	Uniontown.....	Wm. W. Marsteller.
Creekside.....	John B. Weight.	Lock Haven.....	R. Scott Kift, C. E.	Vandergrift.....	W. H. McCune.
Cresson.....	J. C. Burrows.	Lock No. 4.....	Charles R. Taylor.	Warren.....	Mrs. Anna Simpson.
Davis Island Dam.....	Thomas C. Dawson.	Lycippus.....	Westmoreland Water Co.	Washington.....	G. S. Buchanan.
Derry.....	Wm. A. Huff, Jr.	Lykens.....	Susquehanna Coal Co.	Waynesburg.....	H. T. McClelland.
Doylestown.....	Geo. Hart.	Marcus Hook.....	General Chemical Co.	Weikert.....	David Libby.
Driftwood.....	H. P. Muttersbaugh.	Martin.....	George W. Paxton.	Wellsboro.....	George W. Hill.
Ebensburg.....	D. H. Jones.	Mauch Chunk.....	R. K. Wintermute.	West Bingham.....	Frank Johnson.
Elk Lick.....	J. A. Stevanus.	Millintown.....	Wellington Smith.	West Chester.....	Arthur M. Hay.
Emporium.....	T. B. Lloyd.	Montrose.....	Silas Jagger.	Westford.....	C. C. Collins.
Ephrata.....	E. K. Hershey.	Mount Pocono.....	Cecil J. Hoskinson.	West Newton.....	A. B. Adams.
Erie.....	U. S. Weather Bureau.	Mount Union.....	C. R. Gracey.	White Haven.....	Mrs. Jane E. Wallen.
Everett.....	Joseph E. Thropp.	Muncy Valley.....	A. H. Boatman.	Wilkes-Barre.....	Milton Wentz.
Falls Creek.....	J. S. Snell.	Narberth.....	Charles Decker.	Williamsport.....	George A. Beck.
Forest City.....	L. L. Whipple.	Neshaminy Falls.....	N. Springfield Water Co.	York.....	C. L. Bott.
Franklin.....	F. E. Dixon.	New Castle.....	New Castle Water Co.	York Haven.....	Water Supply Co.
Freeland.....	Theodore Reichmann.	Newell.....	General Chemical Co.		
Freeport.....	Mrs. Anna R. Burtner.	North Shenango.....	Mrs. H. M. Patterson.		

WEATHER BUREAU AND COOPERATIVE STATIONS, 1923.



KEY TO SYMBOLS.

- ⊙ Meteorological Observations. (Regular Weather Bureau Stations.)
- Meteorological Observations. (Sub Stations.)

05
VP

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXIX. JANUARY, 1924. No. 1.

GENERAL SUMMARY.

January temperatures were erratic and changeable, although the mean was not far from the normal. There were three cold waves during the month with alternating warm periods of sufficient intensity to counterbalance the temperature deficiencies of the cold periods. The cold waves occurred during the following periods: 5th to 7th; 21st and 22d; and the 26th and 27th. The alternate freezing and thawing occurred with little or no snow covering on the wheat fields, and more or less damage resulted, depending largely on the character of the soil. In some places it was believed that the wheat was ruined, while others reported the damage slight. The full extent of the damage will be hard to estimate until the grain begins to grow in the spring. The precipitation was considerably in excess of the normal, but occurred largely as rain and the snowfall was generally light except in some of the northwestern counties. The light snowfall was favorable for many kinds of outdoor work, especially so for hauling and for construction work. The improved highways were in good condition most of the time. Ice harvest, which usually begins about January first, was delayed until after the third cold wave, as there was practically no ice on the first of the month. After the third cold wave the ice in the Pocono region was from 12 to 13 inches in thickness, and of good quality, and both night and day crews were put on to rush the work of storing a supply.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 78 stations, was 28.1°, or 0.3° above the January normal. The highest mean was 34.6° at Philadelphia, and the lowest was 20.2° at Freeland. The highest temperature recorded during the month was 65° at New Castle on the 1st, and the lowest was 13° below zero at Montrose on the 28th. The greatest daily range was 51° at Bradford on the 28th.

PRECIPITATION.

The average precipitation from rain and melted snow, as shown by the records from 121 stations, was 4.34 inches, or 1.05 inches more than the January normal. The greatest monthly amount was 6.29 inches at Phoenixville, and the least amount was 1.70 inches at Lawrenceville. The greatest amount in any 24 hours was 3.25 inches at Center Hall on the 16th. The average snowfall was 3.6 inches, the greatest monthly amount being 22.4 inches at Corry. There was an average of eight days with precipitation of 0.01 inch or more.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.		
				8 a. m.	8 p. m.		Average.	*Highest.	Direction.
Erie.....	38.2	295.3	13	74	76	14,195	19.1	50	se.
Harrisburg.....	123.0	300.9	41	69	64	5,527	7.4	33	nw.
Philadelphia.....	175.4	300.9	58	66	58	8,618	11.6	42	sw.
Pittsburgh.....	109.1	298.2	37	75	63	10,545	14.2	47	nw.
Reading.....	146.0	300.9	48	73	73	6,516	8.8	37	e.
Scranton.....				84	67	7,127	9.6	42	sw.

* For any five-minute period.

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	23.2	61	-19	4.19	6.75	2.12	5	11	15
1889.....	29.4	68	-5	3.54	7.02	1.82	9	13	9
1890.....	37.5	77	-2	3.04	6.87	1.47	7	8	15
1891.....	30.5	64	-4	3.64	8.74	1.22	6	10	16
1892.....	26.2	66	-28	4.77	8.46	2.08	8	8	15
1893.....	19.0	57	-25	2.85	4.82	1.65	7	10	14
1894.....	32.8	65	-9	2.29	4.71	0.83	9	9	13
1895.....	24.2	58	-17	4.17	6.36	1.83	7	10	14
1896.....	27.6	60	-15	1.43	2.40	0.52	8	9	14
1897.....	25.6	74	-25	2.15	3.54	0.87	8	8	15
1898.....	30.7	67	-16	4.25	7.57	1.32	6	8	17
1899.....	26.6	66	-21	3.05	4.84	0.82	12	8	11
1900.....	29.8	63	-8	2.64	4.37	1.36	8	8	14
1901.....	29.1	59	-10	2.22	4.41	0.74	8	8	15
1902.....	25.6	58	-13	2.80	5.15	1.00	8	9	14
1903.....	26.9	68	-13	3.31	5.09	1.49	6	8	17
1904.....	20.0	66	-42	3.55	5.82	2.08	10	6	15
1905.....	23.8	69	-21	3.70	7.55	1.72	8	8	15
1906.....	35.0	85	-4	2.53	5.28	0.76	10	8	13
1907.....	30.0	75	-23	4.36	9.69	2.14	6	7	18
1908.....	28.4	59	-18	2.68	5.33	1.46	12	8	11
1909.....	31.2	72	-19	2.92	4.25	1.58	9	6	16
1910.....	27.2	56	-22	5.55	8.91	3.27	7	5	19
1911.....	31.6	70	-5	3.54	6.38	1.25	8	5	18
1912.....	18.6	57	-35	1.92	3.72	0.47	8	7	16
1913.....	36.5	65	3	4.95	8.90	1.51	9	6	16
1914.....	30.2	81	-27	3.37	5.77	1.40	7	7	17
1915.....	28.3	62	-26	5.56	9.69	2.43	10	6	15
1916.....	34.2	76	-12	2.42	5.33	0.20	9	8	14
1917.....	27.9	69	-18	3.60	6.69	1.06	11	8	12
1918.....	16.2	57	-29	3.51	7.28	1.20	10	8	13
1919.....	32.0	64	-15	2.53	2.10	0.34	14	8	9
1920.....	20.9	59	-23	2.47	5.35	1.00	9	8	14
1921.....	31.0	63	-13	2.58	5.23	0.89	12	7	12
1922.....	25.0	62	-19	2.26	4.46	1.15	14	7	10
1923.....	29.1	62	-17	4.26	7.74	1.91	6	6	19
1924.....	28.1	65	-13	4.34	6.29	1.70	11	8	12

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	4.7	10.8	12	2.8	29	18
Phillipsburg.....	Delaware.....	5.2	12.0	12	3.4	3	22
Mauch Chunk.....	Lehigh.....	5.0	8.1	17	4.1	27	12
Wilkes-Barre.....	Susquehanna.....	8.6	14.9	13	4.6	26	20
Williamsport.....	Susquehanna.....	6.2	10.5	18	1.7	29	20
Harrisburg.....	Susquehanna.....	7.2	11.0	18	5.0	26	17
Freeport.....	Allegheny.....	11.5	20.8	3	5.3	26	22
West Newton.....	Youghiogheny.....	4.6	16.3	4	2.2	10	20
Lock No. 4.....	Monongahela.....	18.8	36.4	4	14.2	23	31
Pittsburgh.....	Ohio.....	13.5	27.4	4	8.5	29	22
Beaver Dam.....	Ohio.....	16.3	35.0	4	6.4	30	30

Climatological Data for January, 1924.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation of in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Allentown.	Lehigh.	254	12																	John A. Frick.
Altoona.	Blair.	1,615	37	26.8	-0.5	56	1	-4	22	34	5.14	+1.49	1.65	8.0	8	10	18	3	w.	Lewis E. Biller.
Bethlehem.	Northampton.	295	40	33.2	+3.3	60	11	1	22	34	4.13	+0.55	1.49	8.0	9	14	7	10	w.	R. H. Brennecke, Jr.
Biglerville.	Adams.	652	2	30.0		56	11	2	22	32	4.67		2.27	3.5	4	10	6	15	w.	R. C. Walton.
Bustleton.	Philadelphia.	125	5	32.8		61	11	4	22	37	4.93		1.34	1.0	5	8	13	10	sw.	Experiment Station
Carlisle.	Cumberland.	467	57	29.5	+1.6	57	11	3	22	32	4.57	+1.45	1.80	6.0	5	15	5	11	nw.	Prof. C. E. Miller.
Catawissa.	Columbia.	520	27	28.5	+0.4	60	10	-1	22	46	3.44	+0.12	1.30	2.5	7	13	5	13	w.	H. H. Yetter.
Center Hall.	Center.	1,272	28	26.8	+1.4	54	9	-3	21	38	4.70	+2.15	3.25	8.0	6	22	2	7	w.	S. W. Smith.
Chambersburg.	Franklin.	580	24	29.6	+0.9	57	11	3	22	32	4.94	+2.35	2.05	6.3	7	10	8	13	w.	William B. Spear.
Clearfield.	Clearfield.	1,120	14	25.4	-1.5	53	1	-7	21	41	4.28	+0.44	1.50	6.0	8	6	10	15	nw.	E. W. Hess.
Coatesville.	Chester.	380	36	29.7	-0.7	63	11	1	22	33	5.90	+1.93	1.71	2.3	6	13	12	6	w.	Prof. W. T. Gordon.
Colebrook.	Lebanon.	560	14	28.1		58	11	0	22	26	4.13	+0.72	1.45	1.5	5	11	9	11	w.	Wm. A. Rorer.
Emporium.	Cameron.	1,050	36	25.5	-0.3	54	11	-9	28	43	4.55	+1.02	1.35	6.0	8	5	11	15	w.	T. B. Lloyd.
Ephrata.	Lancaster.	380	23	31.4	+2.1	60	11	3	22	34	3.92	+0.93	1.35	5.0	5	12	5	14	n.	E. K. Hershey.
Everett.	Bedford.	1,040	26																	J. E. Thropp Co.
Freeland.	Luzerne.	1,970	9	20.2		52	11	-11	22	30	5.57		2.40	4.0	11	9	11	11	nw.	Theo. Reichmann.
George School.	Bucks.	190	17	33.0	+2.2	62	11	3	22	37	4.84	+1.77	1.36	3.0	5	19	4	8	nw.	Prof. N. W. Swayne
Gettysburg.	Adams.	600	50	31.4	+2.4	57	11	0	22	32	4.87	+1.73	2.50	3.5	5	11	13	7	w.	Col. E. B. Cope.
Gordon.	Schuylkill.	840	20	27.8	+1.4	59	11	-2	22	33	5.88	+1.95	2.25	5.0	6	15	9	7	n.	Capt. J. G. Johnson.
Hamburg.	Berks.	535	31	29.8	+1.1	62	11	1	22	31	2.97	-0.79	0.82	2.0	6	16	10	5	w.	State Sanatorium.
Hanover.	York.	600	20	32.5	+0.4	59	11	3	22	31	4.42	+1.10	1.38		6	15	11	5	w.	Mrs. Mabel C. Wolcott.
Harrisburg.	Dauphin.	361	54	30.6	+1.6	57	11	4	21	26	5.05	+2.23	2.12	2.5	6	9	6	16	nw.	U. S. Weather Bureau.
Hawley.	Wayne.	900	5	27.4		56	11	-4	28	42	3.46		1.20	5.5	6	16	7	8	w.	J. S. Pennell.
Huntingdon.	Huntingdon.	650	36	28.4	-0.2	58	1	-4	28	36	4.32	+1.00	1.50	3.0	6	11	15	5	w.	Prof. W. J. Swigart.
Jersey Shore.	Lycoming.	570	4	28.6		56	11	0	22	31	3.37		1.20	3.0	5	18	6	7		C. B. McCullough.
Kennett Square.	Chester.	340	62																	W. P. Mercer.
Lancaster.	Lancaster.	255	36	32.4	+2.8	60	11	3	22	36	4.77	+1.52	1.45	T	5	21	3	7	w.	Supt. of Water Works.
Lawrenceville.	Tioga.	1,000	26	27.3	+2.7	53	11	-3	22	34	1.70	-0.34	1.00	2.0	4	9	6	16		C. P. Darling.
Lebanon.	Lebanon.	469	83	29.4	+0.4	59	10	-1	21	41	5.17	+1.58	2.00		7	14	12	5	sw.	S. B. Benzling.
Lewisburg.	Union.	450	49	29.7	+4.3	50	9	-2	28	32	4.11	+1.14	1.58	5.0	6	9	8	14	w.	Prof. W. G. Owens.
Lock Haven.	Clinton.	616	35																	R. Scott Kift, C. E.
Lykens.	Dauphin.	680	9	29.7		57	11	-1	22	33	4.69		1.83	2.0	5	15	10	6	nw.	Susquehanna Collieries Co.
Marcus Hook.	Delaware.	50	4																	Gen. Chemical Co.
Mauch Chunk.	Carbon.	600	33	29.2	+2.8	59	11	0	22	35	5.64	+1.86	1.85	3.0	5	14	9	8	w.	R. K. Wintermute.
Midlinton.	Juniata.	445	20	29.9	+2.3	53	10	2	22	31	3.70	+0.52	1.23	5.0	6	12	1	18	nw.	Wellington Smith.
Montrose.	Susquehanna.	1,720	21	23.7	+1.2	51	9	-13	28	38	2.19	-0.52	1.05	T	5	11	8	12	w.	Silas Jagger.
Mt. Pocono.	Monroe.	1,658	21	21.4	-1.5	47	11	-8	22	32	5.15	+2.00	1.40	3.0	7	14	5	12	nw.	Cecil J. Hoskinson.
Muncy Valley.	Sullivan.	1,045	12	26.8		56	11	-10	27	36	5.50	+2.18	2.00	T	7	10	11	10	sw.	A. H. Boatman.
Narberth.	Montgomery.	300	5	32.4		60	11	0	22	31	4.65		1.35	2.4	7	11	9	11	nw.	Charles Decker.
Neshaminy Falls.	Bucks.	60	35	29.1		63	10	1	23	47	5.32		1.25	T	7	17	7	7	w.	North Springfield Water Co.
Palmerton.	Carbon.	398	7	29.9		62	11	1	21	40	3.63		1.54	2.0	7	21	6	4	sw.	F. G. Breyer.
Philadelphia (a).	Philadelphia.	117	53	34.6	+2.0	61	11	6	22	26	4.45	+1.04	1.36	0.5	6	12	7	12	n.	U. S. Weather Bureau.
Philadelphia (d).	Philadelphia.	12	8	32.9		61	11	6	22	28	5.42		1.45	0.7	7					Commandant, Navy Yard.
Phoenixville.	Chester.	100	13	30.8		52	16	2	22	35	6.29		1.54	0.1	5	20	10	1	sw.	North Springfield Water Co.
Quakertown.	Bucks.	496	39	28.6	+1.6	59	11	1	22	32	4.83	+1.34	1.76	3.2	5	12	8	11	sw.	John E. Benner.
Reading.	Berks.	325	54	31.3	+1.9	63	11	4	22	27	4.62	+1.10	1.53	2.0	7	12	10	9	nw.	U. S. Weather Bureau.
Scranton.	Lackawanna.	805	29	29.0	+3.5	58	11	0	27	27	3.73	+0.93	1.74	2.9	8	6	14	11	sw.	U. S. Weather Bureau.
Selinsgrove.	Snyder.	455	34	29.4	+0.5	58	11	-1	28	29	4.86	+1.74	2.30	4.0	7	15	13	3	sw.	Prof. Thomas C. Houtz.
Shawmont.	Philadelphia.	51	28	32.0		53	16	6	22	33	4.87	+1.62	1.50	T	4				nw.	W. S. Guiles.
State College.	Center.	1,217	39	25.8	+0.5	56	11	-5	21	36	4.05	+1.07	1.27	4.5	8	9	9	13	w.	C. A. Kern.
Towanda.	Bradford.	754	29	28.0	+2.8	58	11	-1	22	32	2.14	+0.04	1.04	1.1	8	8	9	14	w.	Hiram E. Bull, C. E.
Wellsboro.	Tioga.	1,419	58	25.0	+0.7	56	11	-11	27	38	3.96	+1.39	1.80	2.5	7	16	6	9	sw.	George W. Hill.
West Chester.	Chester.	455	86	31.5	+1.3	59	11	2	22	33	4.87	+0.99	1.30	T	6	17	8	6	nw.	Arthur M. Hay.
Williamsport.	Lycoming.	521	37	29.2	+1.9	56	11	-1	28	31	4.28	+1.28	1.74	3.0	9	13	3	15	nw.	George A. Beck.
York.	York.	400	36	32.6	+3.3	57	10	3	22	35	4.36	+1.37	1.05	T	5	14	11	6	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam.	Beaver.	700	31	29.3		61	1	-2	6	36	4.25	+1.38	1.24	3.7	15	6	3	22	sw.	U. S. Engineer.
Bradford.	McKean.	1,427	9	22.6		54	1	-11	28	51	5.48		1.64	11.6	19	5	10	16	sw.	City Engineer.
Bradys Bend.	Armstrong.	930	6	23.0		58	1	-9	21	48	5.36		1.52	4.6	14	1	14	16		Edward R. Dewey.
Brookville.	Jefferson.	1,173	33	22.0	-2.8	63	11	-8	28	48	4.55	+1.18	1.44	1.5	9	12	7	12		John Fawcett.
Claysville.	Washington.	1,150	20	23.4	-2.5	60	10	-5	6	36	6.07	+2.54	1.53	0.6	12	15	0	16		J. L. Melvin.
Corry.	Erie.	1,430	12	22.4		52	1	-9	21	45	5.82		1.54	22.4	24	7	4	20		Nevin R. Dickson.
Derry.	Westmoreland.	1,172	27	29.2	-1.2	63	1	-3	21	40	4.14	+0.23	1.53	2.0	12	5	19	7	w.	Wm. A. Huff, Jr.
Ebensburg.	Cambria.	2,000	6	22.8		57	1	-7	21	47	4.01		1.54		9	10	9	12	w.	D. H. Jones.
Elk Lick.	Somerset.	2,680	7																	J. S. Stevanus.
Franklin.	Venango.	957	51	23.6	-2.9	52	10	-6	21	46	5.09	+1.47	1.47	7.0	18	9	1	21	nw.	F. E. Dixon.
Greensburg.	Westmoreland.	1,150	16	28.9	-1.7	62	10</													

Daily Precipitation for January, 1924.																																		
Stations	Drainage Basin.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh	.17		.73	.25							.43	.48				T.	1.41								1.65						.02	5.14	
Altoona	Juniata	.04		1.36		.03						.81					1.52	.02								.47	.03				.08		4.86	
Ansonia|||	W. Br. Susq.	.10		.13	.07	T.	T.	T.				1.04					.07	.92								.18	T.				T.	.06	2.57	
Bethlehem	Lehigh			.96								.69					.13	.86								1.49							4.13	
Biglerville	Susquehanna			T.	1.20							.50					2.27								.70							4.67		
Bloersville	Lower Susq.			1.10								.98					1.55									.66						4.29		
Bustleton	Lower Del.			1.32								1.07					.81	.39								1.34						4.93		
Carlisle	Lower Susq.			T.	1.32							.65					1.80	.03								.77						T.	4.57	
Catawissa	N. Br. Susq.			.09	.63							.08	1.10				1.30									.48	.06					T.	3.44	
Center Hall	Susquehanna				.78	.05						.14					3.25									.45							4.70	
Chambersburg	Potomac			.14	1.23							.72					2.05	.03								T.	.74					.03	4.94	
Clearfield	W. Br. Susq.	.28		1.50		.02						.80	T.	1			.90	T.									.58					.18	.02	4.28
Coatesville	Lower Del.			.28	1.18							1.19					1.71									.08	1.46					T.	5.90	
Colebrook	Lower Susq.			T.	1.13							.63					1.45									.92	T.					T.	4.13	
Conshohocken	Schuylkill			.14	1.27							1.11					1.91									1.36						T.	5.79	
Cresson|||	Juniata			1.30		.20	.10					.80	.02				.30	1.80								.20	.65	.10	.10			.10	.10	5.87
Doylestown	Lower Del.			1.48								.88					.72	.35									.10							3.53
Emporium	W. Br. Susq.			T.	.94							24	1.35		.05		1.21									.05	.30	T.				.41		4.55
Ephrata	Lower Susq.			*	1.10							.57					.90										1.35					T.		3.92
Everett	Juniata																																	
Forest City	N. Br. Susq.	.05		.41								1.02					.23	.48									.52	.07				T.		2.78
Freeland|||	Lehigh	.10		.30	.26							1.26	.32				.46	1.94									.85	.02	T.			T.	.02	5.57
George School	Lower Del.			1.36								1.04					.75	.34									1.35							4.84
Gettysburg	Potomac			.20	.15							1.00					2.50										1.02							4.87
Girardville|||	Susquehanna			.28	.44							.03	1.41	.69			1.89									.26	.26					T.	.01	5.27
Gordon	Lower Susq.	.04		.82								2.25					1.54	.70									.53							5.88
Gouldsboro|||	Lehigh			.94	.12							1.60					.12	1.60									.26						.14	4.64
Graterford	Schuylkill			.03	.94							1.03					.95	.29									.87						T.	4.11
Hamburg	Schuylkill			.05	.82							.81					.60	.02									.71					.01		2.97
Hanover	Lower Susq.			.05	.93							.74					1.21	.11									1.38							4.42
Harrisburg**	do	T.		.59	.71							.91	.20				2.12									.54	.18	T.				T.		5.05
Hawley|||	Upper Del.			.31								.97	.20					1.20									.60							3.46
Holtwood|||	Lower Susq.	.23		1.07	.10							.55	.14				.06	1.25									1.30					T.	T.	4.70
Huntingdon	Juniata			T.	1.40							.75	.14	T.			1.50	.05									.45	T.					.17	4.32
Jersey Shore	W. Br. Susq.			1.20								.85					1.05										.25						.02	3.37
Kennett Square	Delaware											.78																						
Lancaster	Lower Susq.			1.25								.78					.82	.47									1.45							4.77
Lansford|||	Lehigh			.08	.60	.23						1.55	.15				* 2.12										.60							5.33
Lawrenceville	N. Br. Susq.				T.							1.00					.50	.10									.10						T.	1.70
Lebanon	Lower Susq.			.91	.12							.46	.05				1.50									2.00							T.	4.11
Lewisburg	W. Br. Susq.			.85								1.02					1.58	.15									.46						.05	4.11
Lloyd	W. Br. Susq.			.16	.18							1.12					1.00										.21							2.67
Lock Haven	W. Br. Susq.																																	
Lykens	Susquehanna			.88								1.09					1.83	.39									.50						T.	4.69
Marcus Hook	Lower Del.																																	
Mauch Chunk	Lehigh			.85								1.88					1.85	.10									.96	T.						5.64
Mifflintown	Juniata			.90								1.09					1.23	.03									.36						.09	3.70
Montrose	N. Br. Susq.			.43								.66					.50	.55									T.						.05	2.19
Mount Pocono	Upper Del.			1.00		.10						1.40	.80				.90	.50									.45						T.	5.15
Mount Union|||	Juniata			1.27								.61					1.50										.45						.05	3.98
Muncy Valley	W. Br. Susq.	.08		T.	1.23							2.00					1.60	.20									.29						.10	5.50
Narberth	Lower Del.			.06	1.31							1.05					1.27	.08									.05	.83	T.				T.	4.65
Neshaminy|||	Lower Del.	.45		1.14	.15							.06	1.05				1.22										1.25							5.32
Palmerton	Lehigh			.05	.04	.19						1.03					1.54										.15	.63						3.63
Philadelphia (a)|||	Lower Del.			.47	.81							.72					1.09										.39	.97					T.	4.45
Philadelphia (d)|||	do	.52		T.	1.32	.16						.05	.65				1.27										.45						T.	5.42
Phoenixville	Schuylkill			1.54								1.36					.67	1.47									1.25	T.					T.	6.29

Daily Precipitation for January, 1924. - Continued from page 3.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Freeport||	Allegheny.....	.42	T	1.11	.11	.02					1.33	.11		.13		.44	.95	T	T		.03	T				.60	.05				.12	.03	5.42
Greensburg.....	Youghiogheny ..	.08	T	1.55	T	.01		T			.02	.95	.01	T	T		.90	T	.01						T	.47	.01			T	.09		4.13
Greenville.....	Beaver.....	.12		.85							1.46						.80	.02		.11					T	.43	.07				.28		3.64
Grove City.....	Beaver.....		.01			.02	.05	T			.07	1.33	.01	.12			.94	.01		.02	.01		T	T			.43	.07					3.09
Herr's Isl. Dam|||	Ohio.....	.53	T	1.03	.13	T	T				.96	T		T			.27	.78	.02	T	T	T	T			.29	.07	T			.10	T	4.18
Indiana.....	Conemaugh.....																																
Ingram.....	Ohio.....	T	.02	.95		T		T			.14	.85		.01		1.05	T	.01	T	T	T	T			.20	.32	T			T	.07		3.62
Irwin.....	Youghiogheny ..			1.55		T					T	.60	T	T	T		.97			T	T	T			.45	T					.12		3.69
Johnstown.....	Conemaugh.....	.03	.20	1.70		.10		T	T		.03	.78		T	T	T	.94	T	.01	T	.05	.07	.01		.06	.71	.02		.09	.07			4.87
Ketner.....	Allegheny.....	.12		1.07	.02	.02	.03	.02			.78		.15				.95	.03		.03	.05					.21	.03						3.76
Linesville||	Beaver.....	.12	.02	.78	.02	.02	.08	.01			1.27	T	.23				.26	.51		.10	.12	.04	T			.24	.06		.02	.21	.02	4.13	
Lock No. 4|||	Monongahela.....	.25		1.27	.15	T	T				.84	T		T			.25	.89	T		.03					.21	.03						4.19
Lycippus.....	Conemaugh.....	T	T	1.80		T	T				1.00	T					.85			.03	.04				T	.38	.04			.07	.02		4.22
Martin.....	Monongahela.....	.08		1.32	.18	T					.75	.01		T			.44	.90	T		.04	T				.32	.07		T	.16	.17	4.44	
New Castle|||	Beaver.....	.04		.73						1.30	.54		.25			1.28				.08	.10				.42				.12				4.52
Newell.....	Monongahela.....		.36	.88							.16	.54				1.01								.24	.06	T		.01	.09				3.35
Parkers Landing|||	Allegheny.....	.50		1.15	.05	.03	.02		T		1.55	.05	.10	.20		.42	.86	T		.05	.10					.38	.10		.05	.26	T		5.87
Pennline|||	Beaver.....	.06	.04	.60	.02	.04	.18				1.19	.04	.14	.04	.03	.26	.46	T	T	.10	.11	.03	.02				.38	.07					3.67
Pittsburgh**	Ohio.....	T	.23	.86			T	T			.43	.42		.01		1.06	.01	T	T							.38	.07			T	.06		3.63
Ridgway.....	Allegheny.....																																
Saltsburg|||	Conemaugh.....	.23	.01	1.24	.28	T	T				.84	.05				.23	.73	.03		.02	T					.35	.12		T	.06	.02	4.21	
Saegertown.....	Allegheny.....	T		.05		.15	.35				.05	1.24		.23		.88	.12		.15	.15	.15					.33	.10		.05	.05			4.10
Sharon|||	Beaver.....	T	T	.81	T	.02	.05	T			1.11	T	.15	T		.24	.51	.05								.31			.04	.10	T		3.39
Somerset.....	Youghiogheny ..	T	.25	1.36		T	T				.02	.90		T			.95																4.72
Springdale|||	Allegheny.....	.46	.01	1.26	.16	T					1.00	.01		T		.37	.89	T	.02	.02						.10	.70		.15	.11	.03	4.89	
Stoyestown.....	Conemaugh.....																																
Tionesta.....	Allegheny.....	T	.18	1.51		T					.05	.84		T			.90	.03		.09	T				T	.32			.05	.03	.17		4.17
Uniontown.....	Monongahela.....	.15		1.42		T	T				.90					.80		.02		.09	.05	.05	T		T	.40	T			.10		3.98	
Unity Reservoir||	Youghiogheny ..																																
Vandergrift.....	Conemaugh.....		1.45								1.02					1.25										.52				.12			4.36
Warren.....	Allegheny.....	.07		.55	.10	.08	.27	.02	.04		.10	1.38	.02	.15		1.20		.01	.11	.04	.02					.15				.06	.17		4.54
Washington.....	Ohio.....	T	.31	.98		.02					.48	.56		.01		1.32	.02			.01						.29	.07			.12			4.19
Waynesburg|||	Monongahela.....		1.58	.08	.01						.99	.01		T		.50	.88			T	T					.30	T			.15			4.50
Westford|||	Beaver.....	.25	T	.84		T	.40				1.20		.17	.13		.25	.40	T	.14	T	T					.32			.19	T	.35	.15	4.79
West Newton|||	Youghiogheny ..	.15		1.22	.10						.90						.78									.34	.07			.04			3.60
Lake Drainage.																																	
Erie***	Lake Erie.....	.01	.26	.56	T	.24	.04	.01			.45	.34		.24	T		.29	.02	T	.18	.13	.19			.04	.04	.01	T	.02	T	.06	T	3.13
West Bingham.....	Genesee.....			.40		.05		T			2.00		.10			.73										.20	T			.30			3.78

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch.

§ Incomplete or missing.

|| Post Office address:—Greensburg

Daily Temperatures for January, 1924.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.		
Allentown.....	Maximum.....																																	
	Minimum.....																																	
Altoona.....	Maximum.....	56	28	43	29	25	11	21	40	54	53	33	34	33	35	41	46	36	43	42	17	30	37	31	38	33	15	28	43	42	39	85.8		
	Minimum.....	24	18	23	17	4	-2	8	17	23	30	42	26	23	16	10	27	30	25	23	17	-2	-4	29	15	24	0	-1	0	20	35	31	17.7	
Catawissa.....	Maximum.....	38	36	40	39	30	26	32	42	53	60	53	39	42	35	39	48	43	41	42	38	12	27	43	38	39	15	18	48	50	49	42	38.6	
	Minimum.....	30	17	29	19	8	4	18	19	18	18	35	30	22	21	12	28	23	26	30	10	4	1	25	12	15	7	1	2	22	32	33	18.4	
Chambersburg.....	Maximum.....	52	33	40	35	29	19	30	41	50	53	57	42	35	34	36	47	48	37	42	38	26	25	46	38	43	40	21	31	41	48	42	38.7	
	Minimum.....	28	19	27	21	8	5	17	15	19	24	38	32	26	21	15	25	35	30	26	26	5	3	14	21	26	8	7	5	20	31	35	20.4	
Emporium.....	Maximum.....	53	32	38	27	22	15	25	37	37	53	54	33	37	37	27	34	47	47	32	39	39	10	30	36	32	39	29	13	34	42	44	37	84.6
	Minimum.....	23	14	26	17	4	4	15	24	15	20	33	27	26	13	5	30	29	15	20	10	-2	-3	23	5	15	2	1	-9	34	37	34	16.4	
Erie.....	Maximum.....	32	37	40	25	21	15	24	37	49	53	53	33	33	33	25	36	46	33	30	36	28	8	33	34	36	36	12	10	41	43	43	34	32.8
	Minimum.....	20	18	24	19	0	0	15	22	35	44	29	28	23	16	15	30	21	20	28	8	-5	-4	19	16	12	1	1	5	37	33	31	18.1	
Grove City.....	Maximum.....	38	58	38	35	23	21	23	38	50	51	50	33	33	33	28	37	44	44	31	38	37	11	29	33	35	36	22	16	42	43	40	35.5	
	Minimum.....	13	25	20	4	0	-5	9	12	26	28	30	26	23	4	3	29	25	11	23	9	-6	-4	27	13	13	-2	-2	2	37	34	32	14.8	
Harrisburg.....	Maximum.....	50	34	42	34	30	21	28	42	48	53	57	41	40	35	37	49	48	37	43	42	16	27	44	35	42	21	18	34	46	46	41	38.1	
	Minimum.....	28	24	29	25	7	7	21	23	28	37	37	32	29	24	20	31	36	30	32	16	4	4	26	23	21	9	8	12	25	36	37	23.0	
Holtwood.....	Maximum.....	57	34	41	36	32	23	28	43	47	50	57	39	41	29	36	56	50	41	45	39	18	29	46	36	50	21	20	33	49	48	41	39.2	
	Minimum.....	28	21	30	32	7	7	20	19	25	27	37	28	28	25	19	32	36	30	30	18	5	5	25	25	23	9	8	12	30	32	31	22.7	
Indiana.....	Maximum.....	59	42	53	30	28	13	23	40	54	60	58	33	38	30	41	47	47	37	45	44	15	26	38	35	39	29	17	43	43	47	47	38.7	
	Minimum.....	21	16	27	16	1	-1	10	12	22	28	30	28	26	15	13	30	29	24	22	12	-3	-3	26	20	27	0	0	6	37	35	32	18.0	
Mifflintown.....	Maximum.....	47	33	40	38	28	22	27	48	39	53	55	39	36	36	38	48	47	39	38	37	25	32	44	38	43	39	20	31	39	43	44	38.3	
	Minimum.....	29	23	28	23	8	5	7	18	20	23	37	33	27	22	15	30	36	37	24	25	4	2	24	18	27	8	5	25	16	31	36	21.5	
Philadelphia.....	Maximum.....	57	37	48	37	36	29	35	40	51	55	61	42	42	37	39	58	53	41	51	48	25	31	48	39	52	28	23	35	50	51	45	42.7	
	Minimum.....	31	26	34	29	11	10	23	26	32	36	40	36	32	28	25	32	39	34	34	25	7	6	31	27	28	11	9	13	32	38	40	26.6	
Pittsburgh.....	Maximum.....	34	44	49	28	23	14	26	43	54	60	56	35	35	28	44	48	38	37	49	44	5	35	39	39	40	8	20	46	47	46	39	37.2	
	Minimum.....	21	21	24	17	-1	-3	14	24	36	39	31	29	20	18	22	36	26	22	30	5	-3	1	31	27	8	1	4	15	89	37	34	20.2	
Reading.....	Maximum.....	45	33	40	36	32	24	29	38	49	56	63	39	41	35	39	56	50	40	47	47	20	28	43	34	44	20	18	35	46	45	42	39.2	
	Minimum.....	26	23	30	26	8	8	19	22	30	30	37	30	21	26	22	31	37	31	34	20	6	4	26	23	20	8	7	10	34	36	33	23.4	
Scranton.....	Maximum.....	48	34	42	32	30	25	32	36	52	54	58	41	41	35	37	53	48	38	43	42	15	26	40	37	40	18	15	29	45	46	47	37.8	
	Minimum.....	21	20	27	20	6	18	22	26	31	35	30	29	22	17	27	31	25	33	15	2	0	25	17	18	4	0	4	29	37	30	20.2		
Somerset.....	Maximum.....	28	58	50	45	20	10	22	42	55	57	47	33	37	32	28	43	44	40	40	50	30	25	31	42	35	25	12	39	40	40	38	36.7	
	Minimum.....	18	18	22	12	-8	-8	10	15	20	27	25	24	22	10	26	27	12	13	10	-10	-5	10	16	25	0	0	10	20	30	30	13.9		
State College.....	Maximum.....	55	29	42	28	24	11	23	40	51	52	56	32	33	32	46	46	34	42	40	12	31	37	32	38	19	13	28	44	44	44	36	50.0	
	Minimum.....	21	15	24	16	2	0	10	18	26	24	32	27	24	15	10	27	30	22	27	12	-5	-5	29	14	19	0	-3	-4	22	34	32	16.6	
Towanda.....	Maximum.....	50	31	43	29	27	24	29	40	53	55	58	37	38	34	36	47	49	36	39	40	20	24	37	33	40	29	12	29	49	47	40	37.3	
	Minimum.....	22	17	27	18	10	4	14	24	26	23	37	28	25	12	25	30	19	27	20	1	-1	23	8	27	4	-1	-1	28	39	39	29	18.8	
Uniontown.....	Maximum.....	68	39	54	31	29	13	30	45	56	64	64	35	36	32	45	49	48	41	53	45	17	31	43	37	42	24	25	45	46	49	43	40.9	
	Minimum.....	26	21	31	18	3	-1	5	23	26	29	32	30	27	19	15	35	32	27	28	17	-1	0	31	28	24	5	7	12	39	39	33	21.3	
Warren.....	Maximum.....	40	30	35	25	15	14	21	26	47	50	50	31	35	26	29	41	41	25	38	38	6	30	33	30	30	0	10	40	42	40	31	30.6	
	Minimum.....	20	12	24	15	0	-2	10	18	20	20	30	25	24	2	29	23	20	23	6	-2	-6	20	5	0	-10	-5	-3	35	33	24	13.5		
Wellsboro.....	Maximum.....	45	39	39	25	36	18	27	39	50	54	56	34	33	32	35	45	44	30	38	37	35	27	36	31	38	20	11	25	46	44	35	35.6	
	Minimum.....	17	14	23	14	3	-1	9	19	25	22	32	25	21	11	7	23	23	15	24	12	-3	-5	24	4	20	-1	-11	-3	24	34	28	14.3	
Williamsport.....	Maximum.....	47	31	41	37	30	22	29	40	45	45	56	40	36	36	34	47	49	35	37	40	30	30	43	38	40	37	17	28	38	38	41	37.3	
	Minimum.....	28	21	28	23	16	5	15	22	20	25	38	32	28	22	14	38	34	24	28	30	2	1	22	15	26	6	1	-1	26	34	34	21.2	

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXIX. FEBRUARY, 1924. No. 2.

GENERAL SUMMARY.

This was nearly a normal February, there being a slight deficiency in temperature and a slight excess of precipitation. There was little snow on the ground until the 10th when a moderately heavy snow covered the whole State. In some of the southwestern counties this storm was accompanied by heavy ice that did considerable damage to telephone and telegraph wires. It left a snow covering of from two to six inches on the fields and they remained covered in most places during the remainder of the month. On the 19th and 20th a heavy snow, ice, and rain storm occurred and blocked the highways for the first time during the winter. The snowfall was very heavy in the mountain districts and it was several days before the roads were opened to traffic. In the southeastern counties there was a snowfall of from four to six inches followed by a heavy rain that completely saturated the snow and made very disagreeable conditions. In Philadelphia the snow blocked the sewers and on the morning of the 20th slush and water covered the streets from curb to curb and people waded shoetop deep at the crossings on their way to work and to the trolleys. With deep slush on the streets, heavy rain continued during the forenoon of the 20th and altogether it was the most unpleasant day in Philadelphia for several years. Following the storm there was a drop in temperature that froze the slush into a solid ice sheet that covered fields and also the roads wherever the slush had not been cleared before freezing. Much of the ice remained at the close of the month. Conditions during the last half of the month were unfavorable for outdoor work and little progress was made.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 79 stations, was 26.9°, or 0.4° below the February normal. The highest mean was 32.5° at Lancaster and Philadelphia, and the lowest was 18.2° at West Bingham. The highest temperature recorded during the month was 70° at Uniontown on the 4th, and the lowest was 25° below zero at West Bingham on the 24th. The greatest daily range was 57° at Brookville on the 24th.

PRECIPITATION.

The average precipitation, from rain and melted snow, as shown by the records from 117 stations, was 2.94 inches, or 0.11 inch more than the February normal. The greatest monthly amount was 5.16 inches at Pottsville, and the least amount was 1.27 inches at Erie. The greatest amount in any 24 consecutive hours was 2.82 inches at Carlisle on the 19th and 20th. The average snowfall for the month was 16.3 inches. The heaviest monthly snowfall was 37.9 inches at Somerset. The heaviest 24-hour snowfall was 12.0 inches at Freeland on the 19th and 20th.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.		
				8 a. m.	8 p. m.		Average.	Highest.	Direction.
Erie.....	93.2	307.8	30	82	78	9,136	13.1	62	se.
Harrisburg.....	173.2	311.0	56	74	65	4,238	6.1	19	nw.
Philadelphia.....	191.0	311.0	61	69	60	7,665	11.0	34	e.
Pittsburgh.....	137.2	309.5	44	78	68	8,099	11.6	42	nw.
Reading.....	156.0	311.0	50	78	76	5,462	7.8	38	e.
Scranton.....	.....	.....	.....	83	71	5,360	7.7	30	ne.

* For any five-minute period.

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	28.4	63	-31	2.50	4.97	0.89	7	11	11
1889.....	23.0	60	-27	1.96	3.87	0.97	7	9	12
1890.....	37.0	79	0	4.32	6.39	2.28	6	8	14
1891.....	34.8	70	-7	4.61	8.29	2.13	6	8	14
1892.....	31.6	62	-18	1.75	4.48	0.43	8	8	15
1893.....	27.3	60	-16	5.92	9.28	2.92	6	8	14
1894.....	27.6	64	-24	3.53	5.59	1.62	8	9	11
1895.....	20.2	60	-26	1.22	3.47	0.17	10	10	8
1896.....	29.4	65	-21	4.90	9.08	1.94	9	7	13
1897.....	30.6	67	-14	3.28	6.67	1.04	7	8	13
1898.....	29.4	72	-16	2.23	4.05	0.96	8	8	12
1899.....	22.7	67	-39	4.05	10.22	0.98	8	7	13
1900.....	27.1	81	-17	4.22	7.75	1.00	8	6	14
1901.....	21.7	57	-22	0.96	2.75	0.27	10	9	9
1902.....	23.9	64	-24	3.99	7.43	0.45	9	7	12
1903.....	30.5	68	-17	4.49	6.13	1.80	10	7	11
1904.....	21.8	68	-27	2.41	4.80	0.92	10	7	12
1905.....	20.8	59	-25	1.70	2.83	0.44	10	8	10
1906.....	28.0	79	-21	1.70	3.80	0.36	12	7	9
1907.....	22.8	56	-20	1.91	4.37	0.66	12	7	9
1908.....	24.8	64	-29	4.65	8.15	2.51	10	7	12
1909.....	35.8	73	-9	4.84	9.86	2.40	6	7	15
1910.....	26.6	65	-22	3.59	5.39	1.41	9	7	12
1911.....	31.0	66	-8	2.27	3.76	0.85	7	6	15
1912.....	23.7	69	-27	2.20	4.05	0.37	11	8	10
1913.....	27.4	67	-9	1.84	4.61	0.88	12	5	11
1914.....	21.8	65	-27	2.78	6.20	1.30	11	6	11
1915.....	33.3	73	-9	3.90	6.95	1.85	9	5	14
1916.....	25.7	67	-22	3.08	5.86	1.30	8	7	14
1917.....	25.6	68	-29	1.46	3.37	0.35	9	9	10
1918.....	28.2	69	-34	2.46	4.82	0.55	10	8	10
1919.....	32.0	66	-7	2.23	4.27	1.03	12	6	10
1920.....	25.6	62	-20	2.44	5.23	0.70	9	8	12
1921.....	32.8	76	-15	2.59	4.79	1.41	8	8	12
1922.....	33.0	74	-19	1.99	3.61	0.67	9	9	10
1923.....	24.6	58	-20	2.16	4.80	0.65	8	8	12
1924.....	26.9	70	-25	2.94	5.16	1.27	11	7	11

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.		Date.	Lowest stage.		Date.	Flood stage.
		Mean stage.	Highest stage.		Lowest stage.	Highest stage.		
Port Jervis.....	Delaware.....	3.1	4.3	24	2.2	18	18	
Phillipsburg.....	Delaware.....	2.1	3.5	6	1.1	28	22	
Mauch Chunk.....	Lehigh.....	3.9	.....	.....	.....	.....	.....	12
Wilkes-Barre.....	Susquehanna.....	4.2	6.1	8	2.8	25	20	
Williamsport.....	Susquehanna.....	2.7	5.2	7	1.6	24	20	
Harrisburg.....	Susquehanna.....	5.3	6.3	8	4.2	17	17	
Freeport.....	Allegheny.....	6.2	9.5	7	5.0	14	22	
West Newton.....	Youghiogheny.....	2.1	4.2	7	0.9	17	20	
Lock No. 4.....	Monongahela.....	16.4	32.8	21	13.9	17	31	
Pittsburgh.....	Ohio.....	9.7	15.8	21	8.0	18	22	
Beaver Dam.....	Ohio.....	10.4	18.9	21	6.9	24	30	

Climatological Data for February, 1924.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 0.1 in. or more.	Clear.	Pt. cloudy.		Cloudy.	Prevailing direction of wind.
Atlantic Drainage.																				
Allentown.	Lehigh.	254	12	27.2 ^s	.....	.....	.....	7	24	.....	4.26	+1.25	2.17	12.2	12	11	12	6	e.	John A. Frick.
Altoona.	Blair.	1,615	37	25.6	-0.2	47	4	-5	24	32	2.21	+0.10	0.65	27.0	12	16	6	7	w.	Lewis E. Biller.
Bethlehem.	Northampton.	295	40	29.6	-0.2	46	3	9	24	26	3.76	+0.27	1.85	14.5	8	.....	.....	.....	nw.	R. H. Brennecke, Jr.
Biglerville.	Adams.	652	2	29.6 ^a	.....	46 ^a	2 ^a	2 ^a	24	29 ^a	3.58	.....	2.41	14.3	7	11	8	10	w.	R. C. Walton.
Bustleton.	Philadelphia.	125	5	29.3	.....	52	4	9	13	24	3.99	.....	2.20	8.5	11	11	4	14	n.	Experiment Station.
Carlisle.	Cumberland.	467	57	30.2	+0.8	47	27	2	24	31	4.47	+1.50	2.82	17.0	8	15	4	10	nw.	Prof. C. E. Miller.
Catawissa.	Columbia.	520	27	27.6	-1.5	49	27	0	25	39	2.55	+0.17	0.94	14.7	8	12	5	12	.....	H. H. Yetter.
Center Hall.	Center.	1,272	28	28.2	+2.3	50	4	-9	24	40	3.21	+0.91	1.45	27.5	9	19	4	6	.....	S. W. Smith.
Chambersburg.	Franklin.	580	24	29.0	-1.8	47	2	-2	24	31	3.28	+0.37	1.58	14.3	11	8	9	12	w.	William B. Spear.
Clearfield.	Clearfield.	1,120	14	28.6	+1.1	56	4	-14	24	48	2.04	-0.65	0.80	.....	11	12	4	13	w.	E. W. Hess.
Coatesville.	Chester.	380	36	28.2	-1.7	47	4	5	24	29	5.15	+1.05	2.11	16.5	10	8	16	5	w.	Prof. W. T. Gordon.
Colebrook.	Lebanon.	560	14	27.8	.....	45	4	2	24	28	4.39	+1.51	.....	18.3	10	10	6	13	w.	Wm. A. Rorer.
Emporium.	Cameron.	1,050	36	24.3	-0.4	51	4	-17	24	47	2.66	-0.21	0.65	19.5	9	13	6	10	w.	T. B. Lloyd.
Ephrata.	Lancaster.	380	23	29.9	+1.8	47	4	7	24	24	3.33	+0.17	1.75	21.0	8	9	12	8	n.	E. K. Hershey.
Everett.	Bedford.	1,040	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thropp Co.
Freeland.	Luzerne.	1,970	9	19.2	.....	38	20	-6	24	32	4.11	.....	1.26	33.6	15	11	2	16	nw.	Theo. Reichmann.
George School.	Bucks.	190	17	29.7	0.0	52	2	-3	14	37	3.88	+0.78	2.00	13.7	9	15	6	8	n.	Prof. N. W. Swayne
Gettysburg.	Adams.	600	50	31.2	+0.9	49	2 ^a	5	24	29	4.04	+1.23	1.98	13.8	10	9	12	8	w.	Col. E. B. Cope.
Gordon.	Schuylkill.	840	20	25.4	+0.1	45	1	-8	24	39	2.55	-0.92	1.10	12.6	10	13	3	13	nw.	Capt. J. G. Johnson.
Hamburg.	Berks.	535	31	27.3	-1.5	46	26	0	24	33	.....	.....	.....	16.0	.....	11	12	6	w.	State Sanatorium.
Hanover.	York.	600	20	30.5	-1.2	50	4 ^a	9	24	24	3.39	+0.65	1.63	7.8	11	13	11	5	w.	Mrs. Mabel C. Wolcott.
Harrisburg.	Dauphin.	361	54	29.8	-0.6	46	2	12	24	21	4.11	+1.30	1.85	15.3	10	5	9	15	w.	U. S. Weather Bureau.
Hawley.	Wayne.	900	5	22.8	.....	46	27	-10	24	45	2.25	.....	0.90	17.2	10	13	8	8	nw.	J. S. Pennell.
Huntingdon.	Huntingdon.	650	36	27.7	-0.7	50	4	-11	24	46	2.63	-0.21	1.12	.....	8	15	9	5	w.	Prof. W. J. Swigart.
Jersey Shore.	Lycoming.	570	4	27.5	.....	48	27	0	24	44	2.06	.....	1.10	16.2	8	19	2	8	.....	C. B. McCullough.
Kennett Square.	Chester.	340	52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster.	Lancaster.	255	36	32.5	+2.7	50	4	14	13 ^a	23	.....	.....	1.50	10.5	.....	16	7	6	w.	Supt. of Water Works.
Lawrenceville.	Tioga.	1,000	26	23.1	+0.1	47	4	-20	24	49	2.30	+0.47	1.00	10.5	9	12	3	14	.....	C. P. Darling.
Lebanon.	Lebanon.	469	83	29.0	+0.3	46	27	8	24	24	3.78	+0.31	1.50	19.8	9	15	11	3	w.	S. B. Benzing.
Lewisburg.	Union.	450	49	28.1	+2.3	47	27	-11	24	47	2.85	+0.06	1.47	16.0	8	14	3	12	w.	Prof. W. G. Owens.
Lock Haven.	Clinton.	616	35	27.3	+0.2	50	4	-8	24	42	2.25	-0.60	1.11	20.7	10	17	5	7	se.	R. Scott Kift, C. E.
Lykens.	Dauphin.	680	9	28.2	.....	47	1	-3	24	36	2.95	.....	1.51	10.5	8	17	8	4	nw.	Susquehanna Collieries Co.
Mauch Chunk.	Carbon.	600	33	26.8	-0.2	46	26	2	25	33	3.38	-0.49	1.57	18.3	10	12	7	10	w.	W. K. Wintermute.
Mifflintown.	Juniata.	445	20	30.4	+3.7	54	27	-4	24	42	2.38	+0.04	1.37	20.0	11	9	3	17	w.	Wellington Smith.
Montrose.	Susquehanna.	1,720	21	20.2	-0.1	42	5	-11	24	40	1.67	-0.40	0.50	19.0	7	11	2	16	w.	Silas Jagger.
Mt. Pocono.	Monroe.	1,658	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley.	Sullivan.	1,045	12	24.6	.....	46	11	-7	24	38	2.12	-0.25	0.89	13.5	9	9	11	9	w.	A. H. Boatman.
Narberth.	Montgomery.	300	5	29.6	.....	53	4	8	24	24	3.72	.....	1.62	17.2	11	11	7	11	ne.	Charles Decker.
Neshaminy Falls.	Bucks.	60	35	27.4	.....	51	2	-3	14	41	4.18	.....	1.45	8.1	11	14	3	12	w.	North Springfield Water Co.
Palmerton.	Carbon.	398	7	28.3	.....	54	18	3	23 ^a	42	2.66	.....	0.93	22.5	9	12	7	ne.	F. G. Breyer.	
Philadelphia (a).	Philadelphia.	117	53	32.5	-1.4	54	4	15	24	20	4.57	+1.09	2.59	10.3	10	10	7	12	n.	U. S. Weather Bureau.
Philadelphia (d).	Philadelphia.	12	8	31.4	.....	54	4	14	24	21	4.56	.....	1.91	11.5	10	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.	Chester.	100	13	28.8	.....	46	3 ^a	5	14	30	4.10	.....	2.14	14.7	9	16	8	5	w.	North Springfield Water Co.
Quakertown.	Bucks.	496	39	26.2	-2.0	45	2 ^a	3	25	33	3.56	-0.20	1.82	18.9	12	9	10	10	nw.	John E. Benner.
Reading.	Berks.	325	54	30.0	+1.1	46	3	12	24	18	4.20	+0.57	2.14	14.1	8	12	5	12	nw.	U. S. Weather Bureau.
Scranton.	Lackawanna.	805	29	25.7	-1.3	45	4	6	24	28	2.67	-0.15	1.34	15.0	10	4	10	15	nw.	U. S. Weather Bureau.
Selinsgrove.	Snyder.	455	34	27.8	+0.7	47	26	-5	24	38	1.76	-1.18	0.84	11.6	9	16	8	5	w.	Prof. Thomas C. Houtz.
Shawmont.	Philadelphia.	51	28	30.5	.....	48	4 ^a	11	14	24	5.05	+1.87	2.65	.....	9	.....	.....	.....	nw.	W. S. Gules.
State College.	Center.	1,217	39	24.4	-1.1	46	1 ^a	7	24	34	2.30	-0.49	0.60	13.3	8	9	12	8	w.	C. A. Kern.
Towanda.	Bradford.	754	29	23.0	-0.6	47	4	-15	24	43	1.81	-0.10	0.76	12.3	13	.....	.....	.....	nw.	Hiram E. Bull, C. E.
Wellsboro.	Tioga.	1,419	58	21.3	-3.3	49	1	-24	24	52	1.94	-0.41	0.55	22.0	10	14	3	12	w.	George W. Hill.
West Chester.	Chester.	455	86	28.8	-2.0	50	4	10	24	23	3.77	-0.13	1.78	18.8	9	16	7	6	nw.	Arthur M. Hay.
Williamsport.	Lycoming.	521	37	27.6	+1.0	47	5	-5	24	35	2.24	-0.32	0.80	13.0	12	13	3	13	uw.	George A. Beck.
York.	York.	400	36	30.4	+0.8	54	4	4	24	30	3.28	+0.25	1.73	15.0	9	12	7	10	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam.	Beaver.	700	31	30.0	.....	63	4	4	24	31	2.12	-0.19	0.88	9.1	11	8	0	21	sw.	U. S. Engineer.
Bradford.	McKean.	1,427	9	21.5 ^a	.....	56 ^a	4	-22 ^a	24	55 ^a	2.72	.....	0.70	24.0	13	11	6	12	sw.	City Engineer.
Bradys Bend.	Armstrong.	930	6	22.6	.....	58	4	-19	24	54	2.44	.....	0.78	20.5	14	12	3	14	.....	Edward R. Dewey.
Brookville.	Jefferson.	1,173	33	20.6	-3.7	55	4	-23	24	57	2.37	-0.08	0.53	24.0	9	15	7	7	.....	John Fawcett.
Claysville.	Washington.	1,150	20	28.8	-1.0	66	4	2	16	33	2.34	-0.15	0.65	2.7	12	13	6	10	n	J. L. Melvin.
Corry.	Erie.	1,430	12	22.2	.....	59	4	-15	24	48	2.79	.....	0.73	23.6	14	11	2	16	.....	Nevin R. Dickson.
Derry.	Westmoreland.	1,172	27	28.4	+0.3	66	4	-5	24	43	3.50	+0.51	1.19	12.2	16	5	15	9	w.	Wm. A. Huff, Jr.
Ebensburg.	Cambria.	2,000	6	21.7	.....	52	4	-16	16	43	2.21	.....	0.66	.....	9	12	8	9	w.	D. H. Jones.
Elk Lick.	Somerset.	2,680	7	24.7	.....	56	4	6	23											

Day of month.

Continued on page 8.

1

Daily Precipitation for February, 1924. - Continued from page 7.

Stations.	Drainage Basin.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Freeport|||	Allegheny					.16	.52	.11	.06	.04	.29	.06	.32	.04		.08	.04	.03	.08	.12	.99		.11										3.05
Greensburg	Youghiogheny					.28	.14	.05	.07	T.	.19		.29	.01	.03	.02		.18	.02	.44	.71	.02	.02			T.						2.2	
Greenville	Beaver					.78	.06				.52				T.			.04		*	.90											2.30	
Grove City	Beaver			T.		.05		.05			.05		.55	T.	T.		.04		.12	T.	.30	.78	.05	.09			.03					2.11	
Herrs Isl. Dam|||	Ohio					.04	.26	T.	T.	T.	.17	T.	.14	.01	.01	T.	T.	T.	.20	.13	1.38	.17	.02	T.	T.		T.					2.53	
Indiana	Conemaugh																																
Ingram	Ohio					.28	.02	.01	.02	T.	.16		.20	T.	T.	.01		.14	T.	.52	.90	.13	T.	T.		T.				.05		2.44	
Irwin	Youghiogheny					.41	.10	T.	.10	.15		.25	T.				.15	.08	.38	1.03	T.	T.			T.							2.65	
Johnstown	Conemaugh			T.		.57	.03	.07	.06	.01	.37		.28	.01	.11	.04		.28		.63	.58	.19	.02				.04			.02		3.31	
Ketner	Allegheny			.03		.30	.14	.03			.25		.28			.23	.10		.15		.12	.70	.05	.04								2.45	
Linesville|||	Beaver			.02		.17	.50		.01	.06		.23	.16		.06		.02		.04		.78	.05	.08					T.	T.			2.18	
Lock No. 4|||	Monongahela					.07	.41	T.	T.		.15		.12	.02	.03	T.		.19	.23	1.12	.05	.02							T.			2.41	
Lycippus	Conemaugh					.32	.09	.04	.07		.40		.51		.03	T.		.18		.90	.47	T.					T.			T.	.07	3.08	
Martin	Monongahela					.08	.52	T.	.04	T.	.17	T.	.15		.03	.04			T.	.20	.31	.85	.09	.01			T.	T.				2.49	
New Castle|||	Beaver																																
Newell	Monongahela																																
Parkers Landing|||	Allegheny			T.		.12	.25	.10	.03	T.	.20	.10	.20	.10	.02	.20	.10	T.	.20	T.	.40	.10	.10	T.	T.			.05				2.27	
Pennline|||	Beaver			T.	T.	.14	.56		.04	T.	.10	T.	.21	.02	T.	.02		.05		.72	.03	.06	.02									1.97	
Pittsburgh***	Ohio			T.		.29	.01	.02	.02	.05	.09	.11	.09	T.	T.	T.	T.	.15	T.	1.11	.59	.03	T.	T.		T.					.03		2.59
Ridgway	Allegheny																																
Saltsburg|||	Conemaugh					.08	.46	.02	.05	.03	.35	.03	.19	.10	.01	.03	.01	T.	.17	.09	1.14	.46	.02	.02						.02		3.28	
Saegertown	Allegheny					.85	.05	.10		.50					.25	.05		.05		.05	.70	.18										2.78	
Sharon|||	Beaver			T.	T.	.14	.68	.06	.02	.02	.08	*	.09	T.	T.			.20	.21		.75	T.	.02	T.								2.27	
Somerset	Youghiogheny					.82	T.	.10	.21	.55	.50	.25	.30	.10	.10				.69	.65	.55											4.82	
Springdale|||	Allegheny			T.		.09	.37	.02	.01	T.	.28	.01	.16	.05	.02				.14	.12	1.21	.13	.02	.01				T.				2.64	
Stoyestown	Conemaugh																																
Tionesta	Allegheny																																
Uniontown	Monongahela					.56	.16	T.	.11	.07	.17		.11	.07	.02			.14	.06	.32	.92	.05	T.				.02			T.		2.78	
Unity Reservoir||	Youghiogheny					.32	.16	.08	.15		.27		.57		.08	.05		.20		.65	1.24	.08								.05		3.3	
Vandergrift	Conemaugh					.47	.12	*	.50		*	.24	.24		.70	.30		.20		.30	.94	.20										4.21	
Warren	Allegheny			.03	.03	.32	.04	.04	.03	.02	.30	.20			.32	.30		.15		.05	.40	.10	.22									2.55	
Washington	Ohio			T.	.01	.43	T.	.01	.02		.12	.06	.12	T.	.01	T.		.18		1.18	.25	.01								T.		2.40	
Waynesburg|||	Monongahela					.44	.04	T.		.21	.20	T.						.52	.69	.04	T.											2.14	
Westford|||	Beaver					.20	.40	T.	.02		.39		.22	T.	.04	.05		.16		.38	.16	.50	.10									2.62	
West Newton|||	Youghiogheny					.12	.32		.02	.05	.10	.02	.16	.02	.02	.03				.10	1.15										.03		2.14
Lake Drainage.																																	
Erie***	Lake Erie		.01	T.	T.	.16	.06	.07	.02	T.	.13	.01	.03	.01	T.	.01		.06	T.	.20	.34	.03	.13									1.27	
West Bingham	Genesee					.40	.08	T.			.30		.10		.20	.30		.05		.05	.60	.10										2.18	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. || Post Office address:—Greensburg.

Daily Temperatures for February, 1924.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
Allentown.....	Maximum.....	.....	.....	.....	.....	.....	.....	33	35	35	42	29	28	34	37	31	27	37	29	37	31	38	31	29	32	41	40	38	36	.....	.....	34.1 ⁴	
	Minimum.....	30	26	36	31	29	33	26	26	17	19	27	22	12	8	16	17	18	12	15	15	24	18	15	7	9	12	23	23	20	.....	.....	20.2
Altoona.....	Maximum.....	44	45	42	47	42	35	26	24	30	31	40	37	31	29	32	30	32	28	35	24	22	27	26	39	45	41	39	.....	.....	33.8		
	Minimum.....	26	26	32	31	34	26	17	17	12	20	22	26	15	17	19	0	15	11	14	15	16	13	5	-5	11	15	13	18	21	.....	.....	17.3
Catawissa.....	Maximum.....	48	40	44	44	38	38	32	34	38	36	45	36	35	36	35	34	21	39	31	42	31	31	34	34	38	46	49	44	41	.....	.....	37.7
	Minimum.....	29	21	33	32	33	32	24	22	8	18	24	24	9	15	7	9	15	9	14	15	20	15	15	6	0	22	10	15	12	.....	.....	17.5
Chambersburg.....	Maximum.....	40	47	42	45	38	37	32	30	37	34	43	38	34	37	35	31	33	31	39	34	27	31	29	32	40	44	41	39	.....	.....	36.5	
	Minimum.....	29	24	36	29	32	32	24	23	17	25	19	25	23	21	26	12	21	17	16	23	18	14	-2	18	16	21	24	24	21	.....	.....	21.4
Emporium.....	Maximum.....	43	39	37	51	44	39	27	27	28	31	40	35	27	34	33	27	23	30	22	34	25	25	30	31	42	43	36	37	.....	.....	33.3	
	Minimum.....	29	23	34	35	39	24	22	19	9	26	26	20	9	9	13	7	15	11	15	21	20	16	2	-17	-5	7	-2	12	6	.....	.....	15.3
Erie.....	Maximum.....	42	38	34	30	42	39	24	24	28	30	39	32	19	32	32	18	25	24	28	32	22	22	21	21	27	33	37	29	32	.....	.....	29.5
	Minimum.....	26	31	27	24	24	22	20	15	12	25	24	18	9	17	11	5	17	16	14	17	17	17	9	2	13	10	17	22	22	.....	.....	17.3
Grove City.....	Maximum.....	44	44	37	61	54	42	27	25	28	30	39	39	33	33	33	27	26	32	31	34	24	25	25	28	30	41	43	37	37	.....	.....	35.0
	Minimum.....	22	23	32	34	39	23	17	18	11	24	16	16	20	11	18	12	19	10	17	21	12	12	3	9	10	-2	8	17	11	.....	.....	16.7
Harrisburg.....	Maximum.....	40	46	44	43	36	38	32	30	36	35	41	40	32	39	37	31	25	32	23	38	29	28	30	28	34	40	42	40	40	.....	.....	35.5
	Minimum.....	33	29	38	35	32	29	26	25	21	26	27	26	17	22	24	16	20	22	16	17	23	20	17	12	18	27	23	30	26	.....	.....	24.0
Holtwood.....	Maximum.....	42	47	45	54	39	38	32	30	34	36	41	38	30	38	38	28	26	34	25	40	30	37	29	28	36	39	42	39	38	.....	.....	36.3
	Minimum.....	30	27	35	33	35	30	26	25	21	24	24	28	17	21	25	17	19	21	18	25	24	20	18	10	22	29	27	23	25	.....	.....	24.1
Indiana.....	Maximum.....	49	44	48	62	58	46	27	26	27	30	37	35	35	34	33	27	32	36	29	34	26	25	28	35	38	41	46	34	41	.....	.....	36.7
	Minimum.....	27	23	27	37	38	19	18	18	8	21	16	27	16	14	19	13	15	10	18	20	12	13	2	-2	12	17	17	13	17	.....	.....	17.4
Mifflintown.....	Maximum.....	51	42	45	42	41	38	32	29	38	35	45	41	38	39	36	36	30	41	29	39	32	29	35	33	32	46	54	43	47	.....	.....	38.6
	Minimum.....	36	27	36	39	34	32	24	17	25	28	31	17	23	25	12	20	13	18	18	23	29	30	18	-4	12	14	12	27	19	.....	.....	22.1
Philadelphia.....	Maximum.....	46	49	48	54	42	44	36	33	37	38	44	37	30	38	42	33	28	35	32	42	36	32	33	32	36	42	42	42	43	.....	.....	38.8
	Minimum.....	32	32	39	34	34	35	28	23	19	30	27	26	16	20	24	20	19	24	19	32	26	22	19	15	26	29	30	32	27	.....	.....	26.2
Pittsburgh.....	Maximum.....	47	41	45	66	52	37	25	24	30	32	39	35	28	35	33	29	31	33	33	37	23	24	26	33	33	42	44	37	40	.....	.....	35.7
	Minimum.....	34	31	34	40	37	21	20	19	15	27	23	20	18	24	14	10	25	19	25	23	18	16	17	10	26	20	26	25	26	.....	.....	22.9
Reading.....	Maximum.....	39	45	46	45	38	39	33	32	36	35	42	37	29	35	38	31	25	36	25	37	30	28	30	29	35	42	44	39	38	.....	.....	35.8
	Minimum.....	32	29	38	35	33	31	27	22	19	28	29	25	16	17	23	17	19	21	16	25	24	21	17	12	19	27	28	30	23	.....	.....	24.2
Scranton.....	Maximum.....	44	40	38	45	34	37	31	28	31	33	37	32	23	31	33	25	26	28	22	35	30	27	23	27	36	39	43	35	36	.....	.....	32.7
	Minimum.....	28	26	35	30	29	30	24	14	13	20	23	13	9	9	17	13	11	15	13	17	20	14	10	6	8	27	18	27	24	.....	.....	18.7
Somerset.....	Maximum.....	45	55	48	50	42	44	42	16	30	31	38	26	25	23	28	27	32	35	24	20	22	20	22	23	30	40	43	42	40	.....	.....	33.2
	Minimum.....	26	25	30	31	35	20	15	10	8	10	18	12	10	11	16	-8	13	15	10	8	3	10	8	-10	20	20	25	18	22	.....	.....	14.9
State College.....	Maximum.....	46	44	38	46	41	36	25	25	30	30	39	35	28	34	31	28	24	28	19	35	25	22	25	24	23	38	44	34	38	.....	.....	32.2
	Minimum.....	28	26	32	33	33	25	17	18	12	22	23	24	11	14	18	4	16	9	12	15	17	13	11	-7	6	6	10	18	13	.....	.....	16.5
Towanda.....	Maximum.....	39	38	37	47	38	35	32	27	29	33	39	31	21	35	33	22	23	27	21	35	28	25	20	25	33	34	40	33	33	.....	.....	31.5
	Minimum.....	27	21	20	30	32	32	22	18	10	22	20	17	8	0	20	13	3	15	9	15	17	14	7	-15	-10	11	0	14	22	.....	.....	14.6
Uniontown.....	Maximum.....	45	48	54	70	54	44	28	25	31	37	37	35	33	36	35	30	38	37	34	38	26	27	29	39	37	43	45	39	43	.....	.....	38.5
	Minimum.....	30	29	36	30	44	26	20	19	16	27	21	30	21	25	22	3	27	21	27	26	20	17	15	10	29	27	24	21	29	.....	.....	23.9
Warren.....	Maximum.....	33	40	39	41	41	38	28	27	24	28	31	40	26	30	26	26	30	21	28	28	22	20	29	25	36	30	31	37	.....	.....	30.4	
	Minimum.....	26	27	25	32	38	26	20	18	1	24	15	18	10	8	10	-10	0	15	11	10	18	18	4	-13	0	3	13	20	.....	.....	13.6	
Wellsboro.....	Maximum.....	49	39	37	45	38	36	29	25	34	30	43	33	36	35	30	20	28	22	19	35	25	34	40	28	28	36	37	35	36	.....	.....	33.2
	Minimum.....	27	20	30	29	34	27	19	19	5	21	17	17	-2	-10	6	-1	4	-4	7	15	13	9	6	-24	-16	-5	-12	10	12	.....	.....	9.4
Williamsport.....	Maximum.....	43	39	42	43	47	38	36	32	36	36	44	39	32	33	33	30	26	32	27	35	31	28	28	26	29	42	43	41	40	.....	.....	35.6
	Minimum.....	31	24	33	33	35	34	24	25	15	26	25	30	13	13	23	10	15	15	15	18	20	15	14	-5	0	15	8	20	14	.....	.....	19.6

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXIX. MARCH, 1924. No. 3.

GENERAL SUMMARY.

March was a moderately cold month with less than the usual rainfall, but with moderately heavy snows. It was marked by the usual March characteristics of blustery storms and disagreeable conditions. The heavier snows formed a covering on the grain fields and prevented additional damage to that done in January and February. In fact it seemed to partly repair the damage done to the grain during those months. The storms of greatest severity occurred on the 11th and 29-30th respectively. The storm of the 11th covered the whole State with a heavy snow blanket, and blocked the highways in many places for several days, while the attendant winds did considerable damage. Telephone and telegraph wires suffered a large amount of damage, and a large number of trees were blown down. The storm of the 29-30th brought heavy rains to practically all parts of the State, and flooded many streams. At Johnstown the Conemaugh rose to a stage of 16 feet, which was the highest since 1908, and many basements were filled with water. Lightning and high winds accompanied the storm in many places and did much damage. The worst floods were in the Ohio basin, but much damage was done in other parts of the State by the flooding of small streams. The heavy rains and mild temperatures of the 29-30th melted most of the snow and there was very little left on the ground at the close of the month. The month as a whole was unfavorable for outdoor operations, and little progress was made. Farm operations were practically dormant, while building and construction work made little if any better than half time.

TEMPERATURE.

The mean temperature for the State, as determined by the reports of 78 stations, was 36.1°, or 0.9° below the March normal. The highest mean was 41.6° at Philadelphia, and the lowest was 28.0° at West Bingham. The highest temperature recorded during the month was 78° at Derry on the 29th, and also at Claysville on the 30th. The lowest temperature during the month was 3° at Wellsboro on the 1st and 2d. The greatest daily range was 43° at Brady's Bend on the 30th.

PRECIPITATION.

The average precipitation, from rain and melted snow, as shown by the records of 118 stations, was 2.83 inches, or 0.58 inch less than the March normal. The greatest monthly amount was 8.97 inches at Somerset, and the least was 0.59 inch at Towanda. The greatest amount in any 24 consecutive hours was 2.50 inches at Waynesburg on the 29-30th. The average snowfall for the State was 10.3 inches. The heaviest was 72.5 inches at Somerset, breaking all records for the last 37 years. The heaviest 24-hour snowfall was 20.0 inches, also at Somerset, on the 11th.

SUNSHINE, HUMIDITY AND WINDS.

Stations.	Sunshine.			Humidity.		Wind.			
	Total hours of Sunshine.	Number of hours possible.	Percentage of possible.	Average per cent.		Total movement, in miles.	Velocity, in miles per hour.		
				8 a. m.	8 p. m.		Average.	Highest.	Direction.
Erie.....	106.5	370.6	29	79	75	9,374	12.6	46	sw.
Harrisburg.....	226.4	371.0	61	69	60	5,471	7.4	36	w.
Philadelphia.....	252.5	371.0	68	65	55	9,327	12.5	40	e.
Pittsburgh.....	155.7	370.8	42	76	63	9,711	13.1	44	sw.
Reading.....	235.0	371.0	63	76	75	5,618	7.6	32	ne.
Scranton.....	.....	.....	.....	84	78	6,856	9.2	38	sw.

* For any five-minute period.

COMPARATIVE DATA FOR MARCH.

Year.	Temperature.			Precipitation.			No. of days.		
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.
1888.....	31.2	72	-6	3.55	6.39	1.70	.....	.....	.....
1889.....	39.0	76	4	2.90	5.44	1.44	10	8	13
1890.....	33.2	76	-18	5.15	8.31	2.90	6	10	15
1891.....	33.8	60	-14	5.10	8.39	2.44	7	8	16
1892.....	31.8	66	-4	4.14	6.61	2.04	11	7	13
1893.....	34.8	74	3	2.52	5.09	0.71	9	9	13
1894.....	43.2	84	-2	1.63	2.90	0.24	12	11	8
1895.....	33.8	70	-4	2.31	4.03	0.99	10	10	11
1896.....	30.6	69	-18	4.51	7.98	1.77	11	8	12
1897.....	39.0	75	-5	3.22	5.86	1.01	11	7	13
1898.....	44.0	83	4	4.31	8.40	2.06	10	8	13
1899.....	36.3	75	3	4.87	10.30	1.91	5	9	17
1900.....	31.2	66	-23	3.61	7.31	2.25	10	9	12
1901.....	37.4	80	-11	4.14	7.21	1.52	7	10	14
1902.....	41.3	78	2	3.98	7.50	0.77	10	9	12
1903.....	46.4	83	14	4.52	5.81	2.82	10	7	14
1904.....	36.0	80	-2	4.29	7.02	2.10	9	8	14
1905.....	39.0	86	-18	3.86	6.57	1.40	12	8	11
1906.....	31.7	68	-13	4.46	7.37	2.76	8	8	16
1907.....	41.8	92	-10	4.26	8.20	1.08	11	8	12
1908.....	40.7	83	-4	4.76	10.00	1.58	11	8	12
1909.....	35.6	74	-5	3.07	4.90	1.33	10	9	12
1910.....	44.9	88	5	0.56	1.33	0.00	15	10	6
1911.....	35.0	73	-18	2.57	4.75	1.15	11	8	12
1912.....	33.6	72	-8	5.05	9.71	1.80	10	8	13
1913.....	42.1	81	-7	5.27	9.08	2.75	9	8	14
1914.....	34.2	79	-12	2.61	5.08	0.88	10	8	13
1915.....	32.9	62	-4	1.28	2.80	0.57	15	8	8
1916.....	30.7	84	-31	4.12	8.84	2.20	12	8	11
1917.....	37.3	84	-12	3.68	6.06	1.43	11	8	12
1918.....	41.6	82	0	2.34	4.98	0.87	17	7	7
1919.....	41.1	79	6	3.57	6.99	1.29	15	7	9
1920.....	38.7	80	-11	2.83	9.70	1.06	16	7	8
1921.....	48.0	88	7	3.33	6.15	1.05	12	9	10
1922.....	40.0	81	-5	4.37	6.65	2.30	11	6	14
1923.....	37.0	80	-8	2.49	5.21	0.70	13	8	10
1924.....	36.1	78	3	2.83	8.97	0.59	12	9	10

RIVER CONDITIONS.

Stations.	Rivers.	Mean stage.	Highest stage.	Date.	Lowest stage.	Date.	Flood stage.
Port Jervis.....	Delaware.....	3.6	5.7	30	2.3	16	18
Phillipsburg.....	Delaware.....	3.5	7.0	31	1.3	1	22
Mauch Chunk.....	Lehigh.....	4.2	6.8	31	3.8	18	12
Wilkes-Barre.....	Susquehanna.....	6.4	14.3	31	2.9	1	20
Williamsport.....	Susquehanna.....	4.5	12.9	31	1.8	1	20
Harrisburg.....	Susquehanna.....	6.2	11.0	31	3.9	11	17
Freeport.....	Allegheny.....	8.2	19.6	29	4.3	20	22
West Newton.....	Youghiogheny.....	4.5	25.3	30	1.5	2	20
Lock No. 4.....	Monongahela.....	18.0	41.4	30	15.1	13	31
Pittsburgh.....	Ohio.....	12.1	29.2	30	9.0	1	22
Beaver Dam.....	Ohio.....	14.2	39.8	30	8.1	18	30

Climatological Data for March, 1924.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	12	37.8	.....	68	28	18	1	38	1.46	-2.52	0.64	.....	9	17	11	3	nw.	John A. Frick.
Altoona.....	Blair.....	1,615	37	33.9	-3.4	66	28	15	15	32	2.58	-0.12	0.67	30.0	10	15	10	6	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	295	40	39.1	-0.5	68	28	19	1	34	1.14	-2.50	0.50	.....	4	2	23	6	nw.	R. H. Brennecke, Jr.
Biglerville.....	Adams.....	652	2	38.4 ^b	.....	70 ^b	29	20 ^b	14 ^b	28 ^b	5.04	.....	1.75	22.0	8	14	5	12	w.	R. C. Walton.
Bustleton.....	Philadelphia.....	125	5	39.4	.....	71	30	21	1	34	3.24	.....	1.10	6.0	7	15	9	7	n.	Experiment Station
Carlisle.....	Cumberland.....	467	57	39.1	+1.6	72	28	19	1	41	3.62	+0.08	1.22	17.0	6	20	4	7	nw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	27	37.0	-0.6	68	28	10	1	38	2.46	-0.59	0.77	6.0	7	13	8	10	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	28	35.2	-0.6	67	28	11	1	32	2.57	-0.68	1.12	17.0	6	17	7	7	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	24	38.0	-0.4	71	28	16	1	39	5.25	+2.25	1.60	11.5	11	12	11	8	ne.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	14	37.0	-0.5	65	28	9	1	39	2.97	-0.60	0.78	12.9	10	10	12	9	nw.	E. W. Hess.
Coatesville.....	Chester.....	380	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	14	37.2	.....	68	28	14	1	38	4.06	+0.26	1.40	11.8	11	15	5	11	nw.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	36	34.4	-0.6	60	28	8	1	29	2.31	-1.41	0.60	9.9	9	10	9	12	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	23	39.8	-0.8	70	28	16	1	38	3.44	-0.08	1.25	7.0	8	13	9	9	w.	E. K. Hershey.
Everett.....	Bedford.....	1,040	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. Thropp Co.
Freeland.....	Luzerne.....	1,970	9	28.2	.....	54	28	8	2	30	1.98	.....	0.52	12.0	14	10	9	12	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	17	40.2	+1.0	70	28	17	1	40	2.91	-0.55	0.96	3.0	10	19	4	8	n.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	600	50	39.3	+0.1	73	28	20	2	40	5.26	+2.10	1.64	22.2	9	8	15	8	nw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	20	35.2	-0.7	65	28	6	1	38	1.83	-2.49	0.62	11.0	9	15	7	9	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	535	31	36.6	-1.8	66	28	12	1	37	.....	.....	.....	.....	.....	14	12	5	w.	State Sanatorium.
Hanover.....	York.....	600	20	39.1	-2.5	70	28	20	15	33	4.91	+1.76	1.36	.....	12	19	6	6	w.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	54	39.0	+0.1	69	28	23	15	30	2.46	-0.66	0.78	7.8	8	11	12	nw.	U. S. Weather Bureau.	
Hawley.....	Wayne.....	900	5	33.4 ^a	.....	59 ^a	30	5 ^a	2	37 ^a	0.99	.....	0.43	.....	7	11	10	10	n.	J. S. Pennell.
Huntingdon.....	Huntingdon.....	650	36	37.0	-1.3	70	28	8	1	41	3.43	-0.13	1.10	.....	7	14	11	6	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	4	37.5	.....	65	28	12	1	36	3.78	.....	2.00	.....	12	19	4	8	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster.....	Lancaster.....	255	36	.....	.....	72	28	.....	.....	.....	4.59	+1.14	1.60	.....	9	22	2	7	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	26	33.2	-0.8	58	28	10	1	31	1.25	-1.26	0.55	5.0	5	8	7	16	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	83	38.4	-0.2	71	28	20	1	39	2.65	-1.19	0.61	3.2	12	18	8	5	nw.	S. B. Benzling.
Lewisburg.....	Union.....	450	49	37.8	+2.5	67	28	9	1	35	3.34	-0.18	0.85	8.0	11	14	8	9	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	616	35	37.2	-0.6	66	28	10	1	36	1.46	-2.08	0.30	9.8	10	14	5	12	se.	R. Scott Kift, C. E.
Lykens.....	Dauphin.....	680	9	37.9	.....	70	28	11	1	40	2.54	.....	0.85	5.0	10	21	4	6	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	33	37.2	+0.4	67	28	11	1	39	1.53	-2.97	0.72	2.2	5	14	9	8	w.	W. K. Wintermute.
Mifflintown.....	Juniata.....	445	20	39.6	+1.6	71	28	22	1	39	0.80	-2.36	0.21	4.0	12	11	8	12	w.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	21	29.9	-1.2	54	28	8	8	29	1.31	-1.40	0.36	11.0	5	15	5	11	w.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,658	21	29.4	-2.6	52	28	10	16	22	1.96	-1.80	0.72	10.5	6	14	6	11	.....	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	12	34.8	.....	64	28	6	1	35	1.33	-1.06	0.39	.....	10	11	13	7	w.	A. H. Boatman.
Narberth.....	Montgomery.....	300	5	39.6	.....	72	30	21	15	36	3.70	.....	1.30	6.7	11	15	9	7	nw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	35	37.6	.....	71	30	15	1	42	2.54	.....	1.15	T.	10	20	2	9	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	7	38.2	.....	69	28	14	1	35	1.30	.....	0.59	0.8	5	19	9	3	ne.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	53	41.6	+0.8	72	30	25	15	32	3.45	0.00	1.62	2.5	8	9	14	8	n.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	8	40.3	.....	72	30	24	14	32	3.85	.....	1.31	2.0	8	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	13	38.6	.....	68	28	18	1	31	2.48	.....	0.76	1.1	6	16	12	3	w.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	39	36.7	+0.4	67	28	11	1	37	1.95	-1.76	0.99	4.4	8	13	11	7	nw.	John E. Benner.
Reading.....	Berks.....	325	54	39.4	-0.6	70	28	23	15	31	3.17	-0.37	1.08	3.2	9	18	7	6	nw.	U. S. Weather Bureau.
Seranton.....	Lackawanna.....	805	29	35.8	+0.9	60	28	19	2	25	0.93	-2.19	0.38	6.9	8	5	13	13	nw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	34	38.0	-0.2	69	28	12	1	38	3.17	-0.60	0.80	7.0	10	12	14	5	w.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	28	40.0	.....	68	28	23	1	35	3.48	-0.19	1.13	.....	10	.....	.....	.....	nw.	W. S. Giles.
State College.....	Center.....	1,217	39	33.4	-1.9	62	28	13	2	27	2.55	-0.73	0.73	14.4	11	9	12	10	nw.	C. A. Kern.
Towanda.....	Bradford.....	754	29	33.8	-0.6	57	28	14	1	31	0.59	-2.16	0.30	2.9	5	8	6	17	nw.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	58	31.0	-1.7	60	28	3	1	36	1.62	-1.63	0.84	8.6	8	26	1	4	se.	George W. Hill.
West Chester.....	Chester.....	455	86	38.4	+0.1	68	28	20	14	35	3.14	-0.93	0.92	5.0	12	16	7	8	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	37	37.6	+1.0	66	28	15	1	35	1.81	-1.54	0.51	0.5	10	13	5	13	nw.	George A. Beck.
York.....	York.....	400	36	39.4	0.0	72	28	20	1	40	4.89	-1.59	1.66	16.0	8	18	7	6	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	31	38.6	.....	75	29	18	1	39	3.22	-0.33	0.82	9.5	12	3	4	24	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	9	31.8	.....	56	28	4	14	33	1.74	.....	0.60	8.4	13	6	9	16	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	6	33.1	.....	73	29	7	1	43	2.72	.....	0.66	9.0	12	6	9	16	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	33	33.0 ^a	+0.1	65 ^a	29	9 ^a	1	33 ^a	2.39	-0.67	0.75	7.0	7	16	7	6	.....	John Fawcett.
Claysville.....	Washington.....	1,150	20	37.0	-3.6	78	30	16	15	40	4.48	+1.16	1.55	17.5	10	7	8	16	n	J. L. Melvin.
Corry.....	Erie.....	1,430	12	31.6	.....	64	29	7	1	35	2.39	.....	0.65	14.1	13	7	12	12	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	27	36.4	-3.7	78	29	17	14	34	3.39	-0.67	0.98	7.3	9	6	10	15	sw.	Wm. A. Huff, Jr.
Ebensburg.....	Cambria.....	2,000	6	31.1	.....	60	28	4	1	32	2									

Daily Precipitation for March, 1924.

Stations	Drainage Basin.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh					T.	.09	.02	T.			.20	.21															.09	.64	.07	*	.14		1.46
Altoona	Juniata					T.	.08					.05	.47	.03									.30	.08				.67	.61	.22			2.58	
Ansonia|||	W. Br. Susq.			T.	T.			T.	.04	T.		.06	.10															.07	.20	T.	T.	.61		1.08
Bethlehem	Lehigh							.32				.14																.50				.18		1.14
Biglerville	Susquehanna						.16		.01			.23	1.54	*									1.21	.04				.10			1.75		5.04	
Bloersville	Lower Susq.											1.65											1.68					.40					5.07	
Bustleton	Lower Del.					T.	.02	.19				1.10											.94	.06				.69			1.34		3.24	
Carlisle	Lower Susq.					T.		.12	T.			1.22	.06										1.10	T.				.40			.72		3.62	
Catawissa	N. Br. Susq.				.02			T.	*			.01	.41														.50	.17		.77		.24	2.46	
Center Hall	Susquehanna							.05				1.12	.24										.44					.48			.24		2.57	
Chambersburg	Potomac					.07	.03					.10	1.60	.03									.93	.22				.56	.05		1.57	.09	T.	5.25
Clearfield	W. Br. Susq.			T.		.42	.03	.08				.07	.25	T.									.43	T.				.78	.08	.16	.67		2.97	
Coatesville	Lower Del.																																	
Colebrook	Lower Susq.					.10		.15	T.			.09	1.05	.01									1.40	.06				.52	.03		.40	.25	4.06	
Conshohocken	Schuylkill					.18		T.				1.09	.14										.51					.77	*		.27		2.96	
Cresson|||	Juniata				.10	.01	*	.25	.10			.90	1.05										*	1.05	*			.48	*	.10			4.12	
Doylestown	Lower Del.					.11	.02					.99	T.										.10					.54	.02	.04	.04	.44	2.30	
Emporium	W. Br. Susq.			.06		.15	.05	.60				T.	.16										.31			T.		.46	T.	.11	.41		2.31	
Ephrata	Lower Susq.				.17							.17	1.25	.20									.68					.54	.05	T.	.38		3.44	
Everett	Juniata																																	
Forest City	N. Br. Susq.		.03			.12			.15			.03			T.	T.	T.											.10	.02		.05	.12	0.62	
Freeland|||	Lehigh			.04	.04	.08	.12	.08	.09	.06		.19	.18											T.				.16	.34	.05	.03	.52	1.98	
George School	Lower Del.					T.	.13					T.	.96	.56									.11	.09				.52	.17	.04	.11	.22	T.	2.91
Gettysburg	Potomac				.22		T.					.20	1.08										1.64	.06				.55	.02		1.15	.34	5.26	
Girardville|||	Susquehanna		.04		.09		.13	.01				.30	.16	.03					.01				.45				.20	.21	.16		.29		2.08	
Gordon	Lower Susq.				.08		.10					.41	.05										.22					.62		.04	.09	.22	1.83	
Gouldsboro|||	Lehigh		.04			.09	.08					.05	.37						.05									.26			1.26		2.24	
Graterford	Schuylkill				.12	.04	.06					.91	.31										.68	.17				.45	.08			.34	3.16	
Hamburg	Schuylkill																																	
Hanover	Lower Susq.				.17	.20	.05					.09	1.25	.04									1.20	.12				.39	.04		1.17	.19	4.91	
Harrisburg***	do.		T.	T.		.01	.03	.07	T.			.11	.36	.01									.78	T.			T.	.50	T.		.62		2.46	
Hawley|||	Upper Del.		T.		.02	.03		.05				*	.19															.27			.43		0.99	
Holtwood|||	Lower Susq.				.38							.31	.93										.40	.51				.50			.67	.52	4.22	
Huntingdon	Juniata							.10				T.	1.10										.55					.70		.15	.55	.28	3.43	
Jersey Shore	W. Br. Susq.		.02		.20		.01	2.00				.01	.25										.45					.47	.02	.13	.21	.01	3.78	
Kennett Square	Delaware																																	
Lancaster	Lower Susq.				.18		.10					1.60	.20										1.00					.40	.09		.57	.45	4.59	
Lansford|||	Lehigh		T.	T.	.03	.05	.07	T.				.14															T.	.13	.27	.10		.40	1.19	
Lawrenceville	N. Br. Susq.											.40	.10															.10	.10		.55		1.25	
Lebanon	Lower Susq.			T.	.06	.10	.02					.37	.53										.12	.61				.25	T.	.10	.20		2.65	
Lewisburg	W. Br. Susq.		.04		.07	.02						.04	.42										.78	.07				.78	.07	.07	.28	.85	3.34	
Lloyd	W. Br. Susq.			.12		.03						.06	.28										.24					.35		.16	.34		1.58	
Lock Haven	W. Br. Susq.		.02		.18		.08	.26				.30											.29					T.	.05	.02	.21	.05	1.46	
Lykens	Susquehanna				T.	.02	.04	T.				.03	.85	.08									.74	.14				.33	.05		.26		2.54	
Mauch Chunk	Lehigh		T.		.02							.40											T.					.72			.05	.34		1.53
Mifflintown	Juniata			.04		.01	.03					.03	.09	.08									.21	.07				.10	.01		.11	.02	0.80	
Montrose	N. Br. Susq.					.30						.25	T.															.30			.36	.10	1.31	
Mount Pocono	Upper Del.			.20		.06	.08					.60	T.										.72	T.				.72	T.		.30		1.96	
Mount Union|||	Juniata											*	1.10										*					.70			.92		3.17	
Muncy Valley	W. Br. Susq.		.02		.07		.08	.06				.39	.21										.13	.08				.18	.03		.16		1.33	
Narberth	Lower Del.			.16	.03	.03						.01	1.29	.18									.62	.08				.90	T.		.37	.03	3.70	
Neshaminy|||	Lower Del.				.05	.03						.15	1.15														.18	.48		.02	.02	.18	2.54	
Palmerton	Lehigh		T.			T.						.10	.08															.48		.05	.59		1.30	
Philadelphia (a)	Lower Del.			.11	T.	.02						.02	1.62	T.									.71					.67		T.	.29	.01	3.45	
Philadelphia (d)|||	do.				T.	.23	T.					.40	1.31	T.									T.	.88				.23	.38	T.	.30	.12	3.85	
Phoenixville	Schuylkill			.54		.05						.20											.76					.						

Daily Precipitation for March, 1924.—Continued from page 11.

Stations.	Drainage Basin.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Freeport|||	Allegheny			.03		.61			.04	.03	.07	.19	.06									.72					.62	.09		.72	T.		3.18				
Greensburg	Youghiogheny			.04	.03	.25		.01	.03	T.	.07	.83	T.		T.	T.	T.		T.	.01	T.	.39	.05				.56	.14	.01	.81	*		1.69				
Greenville	Beaver							T.			.26																.41	.05	.91			1.69					
Grove City	Beaver			.03		.20		.10	.15		.08	.07										.52	.07				.30	.08	.25	.69			2.54				
Herr's Isl. Dam|||	Ohio	T.		.05		.54	T.		.01	T.	.05	.60	.20	T.	T.	T.	T.			T.		.92	.05	T.			.52	.17	.02	1.03	.03	T.	4.19				
Indiana	Conemaugh																																				
Ingram	Ohio			.04	.01	.41		.04	.02		.18	.97	.01	T.	T.	T.			T.			1.02	.03			T.	.50	.11		1.00	T.	T.	4.34				
Irwin	Youghiogheny		T	T	T	.26			T.		.08	.40	T.									.80					.64	T.	.18	1.00			3.30				
Johnstown	Conemaugh		T	.01	.02	.11		.02	.16	T.	.05	.59	.01	T.	T.	.01	T.		T.	T.		.33	.11				.90	.16	.02	1.10		T.	3.60				
Ketner	Allegheny			.06		.15		.09	.26		.03	.04										.37				.03	.25	.04	.08	.40	.04		1.84				
Linesville||	Beaver			.05		.02			.10		.07	.02										.26	.06				.26	.02	.06	.27	.26	.03	1.48				
Lock No. 4|||	Monongahela			.02		.24	T.		.02		.05	.90	.27				T.				T.						.76	.06		1.15	T.		4.08				
Lycippus	Conemaugh			.06		.21		T.			T.	1.07										.75					.73	.25		1.11			4.18				
Martin	Monongahela	.01		T		.15		.02	.06			.78	.18				T.					.74	.07				.52	.18		1.58	.08		4.34				
New Castle|||	Beaver			T	1.30			.05				T.										.60					.45	.27	.15	.56	.19		3.57				
Newell	Monongahela								.40	T.	T.	.10	T.									.50	.10				.15	.05	.20	.43	.32	T.	2.50				
Parkers Landing|||	Allegheny			.05		.20			.40	T.	T.	.10	T.				T.	T.	T.			.50	.10				.31	.05	.10	.40	.23	.03	1.70				
Pennline|||	Beaver			.05	*	.02		.01	.06	T.	.02	.04	T.	T.								.30	.08				.31	.05	.10	.40	.23	.03	1.70				
Pittsburgh**	Ohio		T.	.05	.43	T.		.04	.01		.49	.52	T.		T.	T.	T.		T.	T.	.42	.52	.01		.07	.56	.04	.06	.93	T.	T.	4.15					
Ridgway	Allegheny								.07	.03	.03	.33	.10				T.					.28	.09				.57	.18	.02	.49	.14		1.69				
Saltsburg|||	Conemaugh			.02		.34			.28	.07	.03	.03	.33	.10			T.					.28	.09				.57	.18	.02	.49	.14		2.69				
Saegertown	Allegheny							T.	.07	.03	.03	.33	.10									.26					.37		.56	.25	T.		1.84				
Sharon|||	Beaver		.15	T.	T.	T.	T.		.04	T.		.10	T.									.70					.40	*	.25	.47	T.		2.11				
Somerset	Youghiogheny		T.						.15	.62	2.00				1.00		.81	.40	.20	.15			.32	.42			.85	.44		1.61			8.97				
Springdale|||	Allegheny			.02		.52			.02		.07	.48	.10				1.00					.82	.08				.54	.12	.02	.98	.05		3.82				
Stoyestown	Conemaugh																																				
Tionesta	Allegheny																																				
Uniontown	Monongahela				.01	.23		.08	T.		.02	.72	T.				T.			T.		.75	.05				.68	.10		1.33			3.97				
Unity Reservoir||	Youghiogheny	T.		.02		.20		.02	.07	T.	.02	.85	.02							T.	T.						.68	.20		1.00			3.73				
Vandergrift	Conemaugh				.55			.03	.07			.37										.62	.08				.50	.08		.93			3.23				
Warren	Allegheny			.12	.04			.15	.36		.05							.03				.47					.10		.06	.76	.06	.08	2.28				
Washington	Ohio																																				
Waynesburg|||	Monongahela			T.	.36			.02		.09	.53	.22										.70					.45	.20			2.50	.15	5.45				
Westford|||	Beaver			T.				T.			T.											.35					.27	T.	.10	.30	.22	T.	1.24				
West Newton|||	Youghiogheny			.07		.22	T.		.03		.04	.68	.14		T.							.86	.05				.50	.19		.99	.09	T.	3.86				
Lake Drainage.																																					
Erie***	Lake Erie	T.	.03		.01	T.		.08	.04		.03	.01										.07					.11	.03	.07		.52	.02	1.62				
West Bingham	Genesee									.20	.10	.60	.05									.05					.20	T.		.64	T.		1.84				

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurement.

1 (tr) (ace) when precipitation is less than .01 inch.

§ Incomplete or missing.

†† Post Office address:—Greensburg

† Daily amounts inconsistent.

Daily Temperatures for March, 1924.

Stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Allentown.....	Maximum...	37	38	39	50	45	45	47	37	45	41	38	41	41	38	35	37	48	50	44	51	40	53	58	59	53	46	45	68	44	66	46	46.0
	Minimum.....	18	20	22	29	29	35	34	27	27	32	32	33	33	23	22	24	29	30	32	28	30	37	28	30	32	36	29	30	38	37	34	29.7
Altoona.....	Maximum.....	44	39	40	48	45	40	38	28	38	34	34	36	34	31	31	34	38	43	37	42	34	46	51	50	46	40	45	66	50	38	41	41.0
	Minimum.....	16	16	32	35	36	28	28	21	22	28	30	29	25	16	15	21	23	23	25	22	28	33	34	30	30	31	32	34	37	35	25	26.6
Catawissa.....	Maximum.....	43	43	48	52	46	45	48	31	42	41	41	44	44	42	38	38	50	52	43	50	50	52	61	61	51	38	49	68	48	63	49	47.5
	Minimum.....	10	15	12	24	35	32	29	23	27	30	32	31	29	21	20	24	24	23	27	27	30	29	25	24	25	30	29	30	38	38	29	26.5
Chambersburg.....	Maximum.....	45	40	47	52	42	43	44	36	42	38	37	43	41	37	34	41	45	53	46	45	42	50	55	58	52	47	49	71	63	65	55	47.0
	Minimum.....	16	23	27	24	35	27	27	28	27	31	32	33	30	21	21	26	28	30	30	24	31	32	34	28	29	33	32	32	41	36	32	29.0
Emporium.....	Maximum.....	37	37	43	50	45	43	37	29	40	38	38	37	35	34	32	33	42	46	36	47	40	47	53	50	43	39	46	68	48	40	41.7	
	Minimum.....	8	19	29	23	34	30	24	23	26	32	32	34	24	17	19	25	24	20	30	27	33	34	27	28	25	33	33	32	37	34	25	27.1
Erie.....	Maximum.....	26	35	41	51	49	34	37	29	28	37	34	35	30	24	31	31	34	34	31	37	36	45	49	44	41	36	48	49	70	47	29	38.1
	Minimum.....	16	19	33	37	32	30	23	26	27	32	30	20	17	18	21	23	25	23	25	29	34	37	31	33	32	31	40	33	24	23	27.3	
Grove City.....	Maximum.....	36	36	44	55	49	45	39	31	30	36	39	36	36	32	31	36	43	41	42	43	41	45	47	52	46	44	48	62	69	66	41	43.3
	Minimum.....	14	17	32	30	21	33	23	22	26	31	31	24	16	11	21	22	21	22	25	31	33	32	33	33	31	35	33	43	33	22	26.5	
Harrisburg.....	Maximum.....	41	38	44	52	46	46	43	35	42	40	38	45	42	36	36	39	46	51	44	48	48	49	54	56	49	44	49	69	56	63	43	45.9
	Minimum.....	25	23	32	31	39	35	29	29	30	32	32	35	31	23	23	27	30	33	34	30	32	38	35	37	36	33	31	39	37	39	33	32.0
Holtwood.....	Maximum.....	40	34	46	54	42	43	45	38	41	41	36	43	41	35	35	39	45	49	43	47	37	47	49	53	48	39	46	68	50	68	50	44.9
	Minimum.....	24	28	30	37	29	28	30	32	32	33	34	31	25	24	28	32	33	33	30	33	26	34	36	34	34	32	35	40	43	37	31.8	
Indiana.....	Maximum.....	41	37	42	52	51	43	39	36	34	37	37	38	39	34	34	37	42	42	41	45	42	46	52	51	48	44	49	69	72	70	36	44.5
	Minimum.....	11	17	33	38	35	29	27	23	24	30	31	31	27	19	17	22	22	29	25	26	32	31	33	33	34	34	32	40	46	34	27.8	
Mifflintown.....	Maximum.....	47	45	45	51	45	48	47	34	50	41	38	46	43	40	37	39	47	54	48	50	43	50	61	58	53	47	48	71	63	61	49	48.4
	Minimum.....	22	23	32	27	37	34	31	28	30	31	34	34	32	23	22	27	28	30	33	30	34	32	28	28	30	34	33	32	41	41	33	30.8
Philadelphia.....	Maximum.....	45	40	50	58	56	46	50	40	48	45	33	44	44	41	38	41	50	53	47	48	40	50	59	61	53	46	48	71	56	72	48	49.2
	Minimum.....	30	30	33	37	46	37	32	30	32	35	32	33	32	25	25	29	32	34	35	31	35	37	35	40	38	33	33	40	39	40	35	34.0
Pittsburgh.....	Maximum.....	37	39	45	61	49	44	38	30	36	38	35	36	36	31	32	37	41	41	41	48	40	40	49	48	46	43	51	67	76	64	35	43.7
	Minimum.....	20	19	36	38	33	31	24	25	26	33	32	30	25	20	18	25	25	30	25	28	33	35	36	36	33	33	44	51	33	26	30.3	
Reading.....	Maximum.....	42	39	46	53	48	45	47	37	46	40	38	42	42	39	38	39	48	52	43	48	39	49	57	58	50	43	46	70	54	67	45	46.8
	Minimum.....	25	25	34	33	38	35	28	27	30	32	33	34	28	23	23	28	30	32	32	30	36	37	33	36	36	33	32	39	38	38	32	31.9
Scranton.....	Maximum.....	33	36	42	50	51	40	44	34	38	39	40	37	35	35	31	30	43	45	38	44	42	50	54	52	49	40	41	60	43	58	38	42.3
	Minimum.....	22	19	31	30	36	33	25	32	28	31	33	32	23	21	22	25	28	27	26	26	37	38	31	34	32	32	32	35	35	38	27	29.4
Somerset.....	Maximum.....	42	32	38	37	35	31	30	25	42	35	30	26	33	26	28	29	30	44	38	36	34	38	39	42	35	40	45	60	65	62	35	37.5
	Minimum.....	20	12	30	12	15	18	14	12	16	20	15	18	16	10	18	20	15	16	17	18	16	18	20	22	24	30	28	25	40	23	20	19.3
State College.....	Maximum.....	36	37	41	49	47	38	37	28	40	35	34	39	36	34	31	32	39	44	38	37	38	50	52	48	46	38	43	62	58	53	36	41.2
	Minimum.....	14	13	30	24	34	27	23	21	27	27	29	28	26	14	15	21	22	24	24	29	30	29	29	30	29	30	28	35	35	34	23	25.5
Towanda.....	Maximum.....	30	34	40	49	49	37	43	33	36	39	39	36	34	32	30	31	40	43	35	42	43	48	54	50	47	40	42	57	45	57	47	41.4
	Minimum.....	14	14	27	21	37	29	27	20	27	31	33	30	25	18	19	24	25	24	22	26	26	30	23	27	25	32	29	29	32	36	26	26.1
Uniontown.....	Maximum.....	42	43	49	63	53	49	44	32	39	38	37	36	37	32	31	39	41	43	42	47	42	38	48	49	47	44	52	69	77	72	42	45.7
	Minimum.....	27	20	34	32	37	31	28	26	27	30	26	32	27	19	16	24	25	24	22	26	27	25	34	34	35	30	35	38	35	43	50	42	30.4
Warren.....	Maximum.....	34	37	44	52	50	44	34	25	30	35	35	36	33	30	30	32	43	34	34	38	38	46	39	38	37	40	50	45	42	30	37.6	
	Minimum.....	15	18	30	29	30	28	20	20	23	21	30	30	22	15	18	22	23	23	25	27	26	25	34	30	32	31	30	31	38	28	22	25.7
Wellsboro.....	Maximum.....	33	39	40	46	48	35	38	31	35	35	33	34	32	32	28	31	39	44	36	39	40	44	51	46	43	38	44	60	45	47	37	39.5
	Minimum.....	3	3	25	17	34	21	23	13	22	27	29	27	26	15	15	20	21	16	20	23	27	27	27	27	27	32	25	30	33	32	22	22.5
Williamsport.....	Maximum.....	38	40	41	49	44	44	44	36	43	40	40	41	40	37	36	38	49	50	46	47	45	50	58	57	52	44	48	66	62	56	46	46.0
	Minimum.....	15	18	30	28	34	34	31	22	29	30	34	33	30	24	21	26	27	26	29	29	33	32	28	30	30	33	31	31	39	39	30	29.2

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXIX.

APRIL, 1924.

No. 4.

GENERAL SUMMARY.

April was cold, wet, blustery, and disagreeable, and presented many of the features of the average month of March. On April 1st a general snow storm covered the State, being very heavy in the central and southeastern counties where the depth ranged from six to fifteen inches. The highways were blocked in some places for two days or more. When the snow was melted by heavy rains on the 6th, nearly all of the streams in the State were raised to the flood stage and some damage resulted. The deficiency in temperature caused vegetation to remain nearly dormant, or to grow very slowly, and at the end of the month the crop season was opening about two weeks later than usual. Orchard fruits bloomed about two weeks late, but otherwise were in good to excellent condition, and little or no frost damage occurred. The excess of moisture in the soil delayed field work, and plowing and seeding were very backward. Grass and winter wheat started slowly, but were making a good growth at the end of the month. Winter wheat, clover, and alfalfa had apparently been badly damaged by winter killing, but they made a better recovery than was anticipated and many of the spots in fields filled in almost completely. At the close of the month the Bureau of Agricultural Economics estimated that only about three per cent of the winter wheat acreage would be abandoned and plowed up for other crops. Home gardens were late in the making, and germination of the seeds was slow. Truck farmers were just getting seeding operations well under way at the end of the month. The lateness of the season was not without certain advantages as vegetation made so little progress that most of the frost damage that is ordinarily experienced was avoided.

TEMPERATURE.

The mean temperature for the State, as determined by the reports from 76 stations, was 46.5°, or 2.1° below the April normal. The highest mean was 51.2° at Philadelphia, and the lowest was 38.2° at West Bingham. The highest temperature recorded during the month was 82° at Clearfield on the 27th, and also at Catawissa on the 28th. The lowest temperature recorded during the month was 6° at Muncy Valley on the 3rd. The greatest daily temperature range was 54° at Wellsboro on the 28th.

PRECIPITATION.

The average precipitation, from rain and melted snow, as shown by the reports from 118 stations, was 4.15 inches, or 0.80 inch more than the April normal. The greatest monthly amount was 7.52 inches at Conshohocken, and the least was 1.77 inches at Westford. The greatest amount in any 24 consecutive hours was 2.72 inches at Bloersville on the 6th. The average snowfall for the State was 7.4 inches. The greatest monthly snowfall was 15.0 inches at Bethlehem, Coatesville, and Holtwood.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total move- ment, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	*Highest	Direction	Date
Erie.....	166.2	401.1	41	69	67	10,198	14.2	48	se.	20
Harrisburg.....	241.1	398.6	60	64	56	5,341	7.4	42	nw.	20
Philadelphia.....	240.3	398.6	60	64	54	7,264	10.1	34	n.	22
Pittsburgh.....	232.5	399.9	51	67	53	8,188	11.0	46	w.	20
Reading.....	254.0	399.0	64	78	76	3,519	5.0	28	nw.	20
Scranton.....				87	82	5,729	8.0	36	sw.	22

* For any five-minute period.

COMPARATIVE DATA FOR APRIL

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	47.2	92	12	2.52	4.23	0.99	14	10	6
1889.....	49.7	88	14	4.50	8.15	2.09	11	8	11
1890.....	48.6	85	12	3.46	5.50	1.75	.....	.....	.....
1891.....	49.8	87	11	2.08	3.54	1.12	13	9	8
1892.....	46.9	85	14	2.04	4.43	0.61	10	10	10
1893.....	47.7	85	16	4.74	6.91	2.95	7	10	13
1894.....	48.0	83	5	3.62	10.00	1.69	11	8	11
1895.....	49.2	90	5	3.76	7.09	0.79	10	8	12
1896.....	53.0	97	4	1.75	3.39	0.20	10	10	10
1897.....	49.0	92	12	3.30	4.63	1.20	12	9	9
1898.....	45.6	84	4	2.93	5.34	1.36	9	8	13
1899.....	50.2	92	2	1.76	3.25	0.70	15	9	6
1900.....	49.2	90	13	1.57	2.80	0.60	14	8	8
1901.....	47.2	95	10	5.41	9.18	1.46	9	5	16
1902.....	48.0	91	20	3.56	7.14	1.34	8	10	12
1903.....	48.8	90	12	3.53	4.93	2.16	11	7	12
1904.....	44.7	86	9	3.45	6.42	1.34	8	8	14
1905.....	48.4	84	16	2.84	4.74	1.39	9	11	10
1906.....	50.0	89	12	3.13	6.96	0.75	14	8	8
1907.....	43.6	84	8	2.64	4.42	1.02	10	7	13
1908.....	49.8	89	0	3.51	6.31	1.85	12	8	10
1909.....	48.5	87	8	5.39	8.42	2.67	10	9	11
1910.....	52.6	89	18	5.07	8.50	2.21	10	9	11
1911.....	46.2	84	6	3.79	5.85	1.66	11	7	12
1912.....	50.2	83	18	4.39	7.31	2.41	10	7	13
1913.....	50.6	90	17	3.82	9.28	1.46	12	6	12
1914.....	47.3	93	5	4.66	7.50	1.90	10	8	12
1915.....	53.9	98	15	1.92	4.41	0.46	13	10	7
1916.....	48.0	87	16	3.65	7.40	1.65	9	9	12
1917.....	48.5	81	14	2.08	4.89	0.41	11	10	9
1918.....	48.2	81	12	4.53	2.41	0.30	10	9	11
1919.....	48.5	90	6	2.70	4.76	0.90	10	10	10
1920.....	46.0	87	8	4.39	11.34	2.44	9	9	12
1921.....	55.3	96	10	3.11	5.06	1.12	13	7	10
1922.....	50.1	91	11	3.17	6.10	1.28	12	9	8
1923.....	48.3	89	-5	2.94	5.89	1.00	14	8	8
1924.....	46.5	82	6	4.15	7.52	1.77	13	7	10

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	6.3	11.8	7	4.2	30	18
Phillipsburg.....	Delaware.....	7.2	20.0	8	4.2	30	22
Mauch Chunk.....	Lehigh.....	5.3	9.0	7	4.4	29	12
Wilkes-Barre.....	Susquehanna.....	11.8	23.5	8	6.9	30	20
Williamsport.....	Susquehanna.....	7.4	19.4	7	4.2	29	20
Harrisburg.....	Susquehanna.....	8.4	17.0	8	5.6	30	17
Freeport.....	Allegheny.....	9.0	14.5	1	5.0	30	22
West Newton.....	Youghiogheny.....	3.4	8.6	7	1.2	28	20
Lock No. 4.....	Monongahela.....	16.5	21.9	1	14.2	28	31
Pittsburgh.....	Ohio.....	11.9	24.6	1	9.1	30	22
Beaver Dam.....	Ohio.....	13.8	26.5	1	8.6	28	30

Climatological Data for April, 1924

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No of days				Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy			Cloudy	
Atlantic Drainage.																					
Allentown	Lehigh	254	12	47.6		76	28	25	21	37	4.79	+0.95	1.58	12.0	14	14	9	7	n.	John A. Frick.	
Altoona	Blair	1,615	37	45.6	-2.6	72	27	22	21	41	3.46	+0.59	0.82	6.0	18	14	7	9	w.	Lewis E. Biller.	
Bethlehem	Northampton	295	40	48.3	-3.6	78	28	25	17	37	4.29	+1.14	1.05	15.0	13				w.	R. H. Brennecke, Jr.	
Biglerville	Adams	652	2	48.6		75	14	20	2	36	4.39		2.07	10.0	9	12	11	7	nw.	R. C. Walton.	
Bustleton	Philadelphia	125	5	48.5		77	14	23	3	38	6.11		1.64	8.0	13	15	3	12	s.	Experiment Station	
Carlisle	Cumberland	467	57	49.7	-2.5	77	14	22	2	42	4.45	+1.12	1.78	10.5	10	18	3	9	nw	Prof. C. E. Miller.	
Catawissa	Columbia	520	27	46.0	-5.3	82	28	15	3	48	4.41	+1.00	1.20	12.0	8	18	3	9		H. H. Yetter.	
Center Hall	Center	1,272	28	45.0	-3.9	73	28	20	1	40	3.40	+0.26	1.25	10.0	8	16	5	9		S. W. Smith.	
Chambersburg	Franklin	580	24	48.5	-1.3	76	14	19	2	43	4.93	+2.09	1.87	8.7	10	15	6	9	s.	William B. Spear.	
Clearfield	Clearfield	1,120	14	46.2	-2.1	82	27	18	3	53	4.35	+0.94	1.05	8.0	13	13	8	9	sw.	E. W. Hess.	
Coatesville	Chester	380	36	47.2	-3.6	75	14	19	3	38	6.30	+2.67	1.50	15.0	11	10	9	nw.	Prof. W. T. Gordon.		
Colebrook	Lebanon	560	14	47.2		74	14	22	2	37	4.85	+0.65	1.26	11.5	15	14	2	13	nw.	Wm. A. Rorer.	
Emporium	Cameron	1,050	36	42.2	-4.9	73	28	15	3	47	5.22	+1.89	1.11	6.5	11	10	8	12	w.	T. B. Lloyd.	
Ephrata	Lancaster	380	23	48.9	-1.1	78	28	21	3	40	4.01	+0.46	1.19	1.0	10	11	8	11	n.	E. K. Hershey.	
Freeland	Luzerne	1,970	9	38.6		72	28	12	1	36	4.43		1.04	11.0	13	9	10	11	nw.	Theo. Reichmann.	
George School	Bucks	190	17	48.2	-1.9	78	28	23	2	42	5.61	+2.01	1.40	10.5	12	18	4	8	s.	Prof. N. W. Swayne	
Gettysburg	Adams	600	50	50.0	-0.4	79	14	23	2	41	4.31	+0.71	1.85	9.0	10	15	8	7	w.	Col. E. B. Cope.	
Gordon	Schuylkill	840	20	45.1	-2.8	76	28	15	3	46	4.48	-0.18	1.64	12.0	13	15	5	10	n.	Capt. J. G. Johnson.	
Hamburg	Berks	535	31	47.9	-2.5	75	28	21	2	39	4.41	+0.16	1.21	8.9	13	17	6	7	w.	State Sanatorium.	
Hanover	York	600	20	49.8	-3.2	76	14	21	2	33	4.00	+0.71	1.19	7.0	12	16	9	5	w.	Mrs. Mabel C. Wolcott.	
Harrisburg	Dauphin	361	54	49.4	-1.5	73	14	26	1	28	5.15	+2.66	1.62	8.0	11	12	6	12	nw.	U. S. Weather Bureau.	
Hawley	Wayne	900	5	43.8		76	28	12	1	46	4.59		1.75		9	16	5	9	n.	J. S. Pennell.	
Huntingdon	Huntingdon	650	36	47.2	-2.4	75	27	18	3	45	3.61	+0.24	1.10	7.0	10	17	8	5	w.	Prof. W. J. Swigart.	
Jersey Shore	Lycoming	570	4																	C. B. McCullough.	
Kennett Square	Chester	340	52																	W. P. Mercer.	
Lancaster	Lancaster	255	36								4.04	+0.50	1.07	8.0	11					Supt. of Water Works.	
Lawrenceville	Tioga	1,000	26	44.0	-1.8	75	28	9	3	45	3.92	+0.78	1.00	9.0	11	13	7	10		C. P. Darling.	
Lebanon	Lebanon	469	83	48.2	-2.3	77	28	23	2	38	4.80	+1.43	1.20	12.0	14	15	8	7	w.	S. B. Benzing.	
Lewisburg	Union	450	49	48.6	+0.4	80	27	20	2	47	5.19	+1.67	1.98	10.0	13	12	8	10	w.	Prof. W. G. Owens.	
Lock Haven	Clinton	616	35																	R. Scott Kift, C. E.	
Lykens	Dauphin	680	9	47.8		78	28	24	4	44	4.77		1.49	9.0	13	16	3	11	nw.	Susquehanna Collieries Co.	
Mauch Chunk	Carbon	600	33	47.5	-1.3	78	28	23	1	42	5.10	+1.18	1.98	8.0	9	12	11	7	w.	R. K. Wintermute.	
Mifflintown	Juniata	445	20	50.2	+0.4	77	28	26	1	43	5.30	+1.39	2.01	9.1	15	14	5	11	nw.	Wellington Smith.	
Montrose	Susquehanna	1,720	21	40.5	-3.6	71	28	9	3	38	4.30	+0.80	0.95	13.0	12	18	3	9	w.	Silas Jagger.	
Mt. Pocono	Monroe	1,658	21	38.3	-4.7	72	28	16	2	36	6.08	+1.90	1.60	12.0	11	13	3	14	nw.	Cecil J. Hoskinsou.	
Muncy Valley	Sullivan	1,045	12	44.2		78	28	6	3	48	4.53	0.00	1.30	9.0	10	14	13	12	5	sw.	A. H. Boatman.
Narberth	Montgomery	300	5	49.1		77	28	21	2	35	7.17		2.04	14.0	4	13	11	8	sw.	Charles Decker.	
Neshaminy Falls	Bucks	60	35	47.4		77	28	22	3	42	5.39		1.87	6.0	10	18	3	9	w.	North Springfield Water Co.	
Palmerton	Carbon	398	7	46.9		76	28	25	1	40	3.56		1.64	8.0	10	18	5	7	ne.	F. G. Breyer.	
Philadelphia (a)	Philadelphia	117	53	51.2	-0.9	76	14	27	2	26	5.37	+2.46	2.16	6.7	11	12	4	14	w.	U. S. Weather Bureau.	
Philadelphia (d)	Philadelphia	12	8	49.4		76	14	26	2	31	4.47		1.95	6.5	10					Commandant, Navy Yard.	
Phoenixville	Chester	100	13	49.0		80	13	14	3	40	5.81		1.55		14	15	11	4	w.	North Springfield Water Co.	
Quakertown	Bucks	496	39																	John E. Benner.	
Reading	Berks	325	54	49.0	-1.3	76	28	25	2	31	5.34	+2.12	1.63	10.0	10	15	9	6	nw.	U. S. Weather Bureau.	
Scranton	Lackawanna	805	29	46.2	-0.9	77	28	22	1	39	3.30	+0.65	0.95	7.0	10	9	9	12	nw.	U. S. Weather Bureau.	
Selinsgrove	Snyder	455	34	47.8	-2.1	76	28	16	3	42	5.63	+2.09	1.80	10.0	12	16	8	6	w.	Prof. Thomas C. Houtz.	
Shawmont	Philadelphia	51	28	49.4		74	28	24	3	33	5.73	+2.56	1.93	6.5	14	15	5	10	nw.	W. S. Guiles.	
State College	Center	1,217	39	44.3	-3.4	73	27	21	2	39	5.14	+1.86	2.23	9.0	11	11	12	7	w.	C. A. Kern.	
Towanda	Bradford	754	29	43.4	-3.2	72	28	9	3	41	3.78	+0.85	0.91	8.8	13	11	8	11	nw.	Hiram E. Bull, C. E.	
Wellsboro	Tioga	1,419	58	41.9	-2.7	78	28	8	3	54	3.43	-0.15	1.11	10.2	10	17	3	10	sw.	George W. Hill.	
West Chester	Chester	455	86	48.0	-1.7	75	28	20	3	32	5.67	+1.89	1.30	12.8	14	17	4	9	nw.	Arthur M. Hay.	
Williamsport	Lycoming	521	37	48.6	0.0	76	28	22	2	40	5.03	+1.65	1.89	11.0	15	17	3	10	nw.	George A. Beck.	
York	York	400	36	49.2	-1.5	78	28	16	3	42	3.16	+0.13	0.91	8.0	11	17	4	9	e.	York Water Co.	
Ohio Drainage.																					
Beaver Dam	Beaver	700	31	50.0		75	24	24	8	43	3.15		0.59	4.5	14	11	3	16	ne.	U. S. Engineer.	
Bradford	McKean	1,427	9	42.0		75	28	12	3	50	4.60		1.32	2.0	14	10	9	11	w.	City Engineer.	
Bradys Bend	Armstrong	930	6	43.8		73	27	13	3	47	2.98		0.77	2.5	16	10	8	12		Edward R. Dewey	
Brookville	Jefferson	1,173	33	42.2	-3.6	72	27	13	3	46	3.62	+0.76	0.92	3.0	10	21	2	7		John Fawcett.	
Claysville	Washington	1,150	20	50.2	-0.4	78	14	22	2	49	2.82	-0.67	0.79	2.5	16	11	5	14	n.	J. L. Melvin.	
Corry	Erie	1,430	12	43.0		69	27	19	1	42	3.53		0.93	2.9	14	12	7	11		Nevin R. Dickson.	
Derry	Westmoreland	1,172	27	48.2	-1.1	75	26	22	3	41	3.30	-0.42	0.77	6.8	13	13	9	8	w.	Wm. A. Huff, Jr.	
Ebensburg	Cambria	2,000	6	42.0		69	27	11	3	41	3.30		1.26		14	15	7	8	w.	D. H. Jones.	
Elk Lick	Somerset	2,680	7	43.8		70	14	18	2	37	3.79			9.5	10	17	8	5	w.	J. S. Stevanus.	
Franklin	Venango	957	51	44.8	-1.5	75	27	19	3	46	3.04	+0.01	1.07	0.5	16	16	2	12	n.	F. E. Dixon.	
Greensburg	Westmoreland	1,150	16	48.2	-2.0	73	14	23	2	43	4.02	+0.37	0.93	5.8	14	10	9	11	w.	Westmoreland Water Co.	
Greenville	Mercer	950	29	46.0	-0.3	72	24	21	3	42	2.87	-0.7									

Daily Precipitation for April, 1924

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Alleentown	Lehigh	1.24					.11	.147			.08						.03	.02	.18	.91	.05	.18	.02	.21						.11	.18	4.79	
Altoona	Juniata	.20	.03				.82	.26		.19	.02				.01			.05	.71	.02	.23	.01	.25	.02		.12			.01	.20	.31	3.46	
Ansonia	W. Br. Susq.		.44	T.			.67	.94			.09				.12			.08	.41	.54	.10	.21	.22	T.					.04	T.		3.86	
Bethlehem	Lehigh	1.05					.89	.43		.07	.03							.07	.47	.48	.11	.07	.21						.30	.11		4.29	
Biglerville	Susquehanna	.82					2.07	.08		.04									.93		.08				.05					.30	.11	4.39	
Bloersville	Lower Susq.	.62					2.72												1.25				.21		.51				.27	.67	6.25		
Bustleton	Lower Del.	1.12					.87	.63		.05	.01						.05	.01	1.64	.52	.19		.26						.57	.19		6.11	
Carlisle	Lower Susq.	.91				T.	1.78	.12										T.	1.00	.02	.08	T.	.10		.12				.18	.14		4.44	
Catawissa	N. Br. Susq.	1.20					1.05												.18	.85			.20	.48					.10	.35		4.41	
Center Hall	Susquehanna	1.25					1.25											.01	.38		.24	.04							.09	.14		3.40	
Chambersburg	Potomac	.89	T.				1.87	.16	.03	.09									1.22			.10		.10					.06	.41		4.93	
Clearfield	W. Br. Susq.	.43	.05				1.05			.28	.03				.05				.60	.05	.39	.07	T.		.30				.25	.80		4.35	
Coatesville	Lower Del.	1.50					1.50			.07								.03	1.43	.08	.13		.19		.13				.25	.99		6.30	
Colebrook	Lower Susq.	.89	.01				1.27	.01		.04	.01							.04	1.15	.01	.11	.01	.26		.22				.65	.18		4.85	
Conshohocken	Schuylkill	1.03	T.				1.43			.03								T.	1.99		.04		.25		.08				.67	.60		7.52	
Cresson	Juniata		.34				.50	.70	.20	*	.34				.02				.50	.20	.05	.04	.03	.35					.23	.92		3.92	
Doylestown	Lower Del.	.93	.05				.98	.66		.01							T.	.02	1.26	.46		.16	.25		.06				.23	.73		5.80	
Emporium	W. Br. Susq.	.65	T.				1.11			.75								.12	.93		.28	.21	.30		.06				.38	.41		5.22	
Ephrata	Lower Susq.	.80					1.19			.07								.10	1.07		.08	T.	.17			.04			.37	.12		4.01	
Forest City	N. Br. Susq.	.12	.16				.38	.17		.27					.10				.51	.59		.10	.56						.76			4.72	
Freeland	Lehigh	.08	.96				.42	.86		.21							.06	T.	.28	.70	.02	.28	.08	.44					T.	.04		4.43	
George School	Lower Del.	.78	.06				.95	.90									T.	.05	1.40	.59	.14	T.	.22		.03				.46	.03		5.61	
Gettysburg	Potomac	.92					1.85	.17	.07	.02	T.								.91		.11		.02						.06	.18		4.31	
Girardville	Susquehanna	1.10	T.				1.81	.02		.09				T.				.03	.48		.18	.02	.37		T.				.03	.23		4.80	
Gordon	Lower Susq.	.76					1.64	.13		.04							.02	.12	.72	.08	.06	.13	.32		T.				.28	.18		4.48	
Gouldsboro	Lehigh		.86					1.60		.24	.12								.54	.48		.26		.18					*	.36		4.84	
Graterford	Schuylkill	.95	.31				.84	.27		.03	.06						T.	.06	1.14	.23	.32	.24	*	.21		.04			.20	.08		4.41	
Hamburg	Schuylkill	.60	.29				1.21			.11									1.12	.09	.36	*							.20	.08		4.00	
Hanover	Lower Susq.	.66	.03				1.19	.38		.02	.05								1.02		.14		.14		.09				.10	.18		5.15	
Harrisburg	do.	1.07					1.62			.04							T.		.03	1.14	T.	.28	T.	.12				.02	.41	.20		4.59	
Hawley	Upper Del.		.70					1.75		.22						.06			.38	.77		.27	T.	.44	T.				T.	.05		4.76	
Holtwood	Lower Susq.	.25	1.20				.36	1.30	.12	.07									.40	.93	.02	.06	T.						T.	.05		3.61	
Huntingdon	Juniata	.55					1.10	.17		.15									.75		.30		.14		.16				T.	.12	.17		4.04
Jersey Shore	W. Br. Susq.																															4.00	
Kennett Square	Delaware						1.07			.01	.02							.02	.74		.15		.15						.80	.11		4.00	
Lancaster	Lower Susq.	.80									.11								.30	1.00	.15	.20	.10	T.					T.	.03		3.92	
Laurelville	Lehigh		.34					1.76									T.	.02	T.	.25	.90	*	.27	.02	.30				T.	.32		4.80	
Lawrenceville	N. Br. Susq.	.50	.10				.70	.50		.05									.41	.72		.08	T.	.16		.18			.40	.12	.14	5.19	
Lebanon	Lower Susq.	.35	.85			.45	.89			.04								.01	.41	.72		.08	T.	.16		.18			.26	.25		3.04	
Lewisburg	W. Br. Susq.	1.00					1.98	.10		.66	.01							T.	.17	.90	.05	.12	.07	.22					.26	.25		4.77	
Lloyd	W. Br. Susq.	*	.74				.92	.18		.14									.18	.36		.12							.21	.19		5.08	
Lock Haven	W. Br. Susq.																															6.08	
Lykens	Susquehanna	.57	.12				1.49	.09		.01							T.		.14	.88		.10	.12	.23		.17			.63	.21		5.10	
Mauch Chunk	Lehigh	.99					2.09			.13							.03	.07	1.15	T.	.24		.38						.02	T.		5.30	
Millintown	Juniata	.80	.01				2.01	.08		.04	.05							.05	.80	.07	.08	T.	.14		.32				.48	.36		4.30	
Montrose	N. Br. Susq.	.90	.15				.95	.35		.18									.12	.63		.20	.10	.47					.18	.18		6.08	
Mount Pocono	Upper Del.	1.10	.14				1.60	.10		.10								T.	1.60	.20	.03	T.	.90						T.	.30		5.08	
Mount Union	Juniata	*	.45				1.00	.04		.20									1.00	.04	.30	T.				.10			*	1.04		4.53	
Muncy Valley	W. Br. Susq.	.51	.11				1.30	.22		.09								T.	.12	.71	.12	.64	.11	.34					.11	.11		7.17	
Narberth	Lower Del.	1.40	.02				1.49	.49		.03	T.							T.	.02	.04	.62	.09	T.	.30		.10			.29	.28		5.39	
Nesbarny	Lower Del.	T.	.90				*	1.75											.02	.25	1.87		.08		T.		.02		*	.50		3.56	
Palmerston	Lehigh	.57					1.64			.02								.02	.03	.87		.10	T.	.18					T.	.01	.12	5.37	
Philadelphia (a)	Lower Del.	1.06	T.				1.32	.07		.03							T.		.01	.216		.14		.21		T.		.07	.14	.16		4.47	
Philadelphia (d)	do.	T.	.65	T.			T.	1.95		.02								T.	.14	1.06	T.	.20		.31					.07	.03		5.81	
Phoenixville	Schuylkill	.98	.42				1.15	.40		.04	.02							T.	.04	1.02	.33	.133											

Daily Precipitation for April, 1924—Continued from page 11

Stations	Drainage Basin	Day of month																															Total				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Greensburg.....	Youghiogheny	.32	.03			T.	.63	.40	T.	.41								T.	.71	.01	.16	.05	.20			.07			.30	.63	.10	4.02					
Greenville.....	Beaver	.12				.35		.15		.12								.05	.98		.17	.15			.04			.04		.40		2.57					
Grove City.....	Beaver	.14	.07				.75	.13		.52								.10			.10	.25	.09		.05			.05	.15	.44		3.98					
Herrs Isl. Dam|||	Ohio	.19	.08	T.			.49	.15	.39	.10	.34							T.	.30	.30	.03	.03	.18	.02		.01			.45	T.		3.06					
Indiana.....	Conemaugh.....																																				
Ingram.....	Ohio	.24	.02			T.	.56	.41		.40								T.	.66		.09	.04	.12	T.		.02			.33	.32	.15	3.39					
Irwin.....	Youghiogheny	.34	.03				.34	.32	T.	.33								T.	.55		T.	.10	.06	.12				.16	.48	.09		2.92					
Johnstown.....	Conemaugh.....	.25	.03			.02	.90	.25		.37								T.	.05	.47	.01	.25	.09	.23		.18		.20	.05	.30		3.70					
Ketner.....	Allegheny.....	.11	.03				.68			.22							.08		.03	.85	.02	.20	.15	.31	.03	.09		.09	.23	.17		3.20					
Linesville|||	Beaver	.11	.01				.31		.09	.03		.22					.08		.75		.48	.01	.60			.06		.05		.11		2.91					
Lock No. 4|||	Monongahela.....	.14	.12					.02	.28	T.	.25							.04	.45	.51	.05	.19	.12	.04		T.			.60	T.		2.81					
Lycippus.....	Conemaugh.....	.25	.04				.75	.25		.33									.20	.05	.05	T.	.20			.07			.50	.14		3.14					
Martin.....	Monongahela.....	.13	.15	T.			.52	.13	.22	T.	.30								.25	.42	.01	T.	.10	.04		T.	.03		.67	.02		2.99					
New Castle|||	Beaver	*					.53	.31	.43	.06									.56	.21	.02	.01	.18	.02	.08				.01		.07	2.66					
Newell.....	Monongahela.....																																				
Parkers Landing|||	Allegheny.....	.20	.05	T.			.42	.05	.05	.37	.20								.45	.40		T.	.10	.16		T.			.45		.18		3.13				
Pennline|||	Beaver	.10	.02				.31			.10	.07	.27						T.	.67		.02	.70	.30	.10	.04	.71		.09		.05	.07		3.02				
Pittsburgh***	Ohio	.24	T.			.16	.38	.32		.39									.01	.54	.01	.05	.02	.15		.01			.43	.02	.36		3.09				
Ridgway.....	Allegheny.....																																				
Saltsburg|||	Conemaugh.....	.10	.19				.30	.06	.22	.10	.26								.01	.17	.36	T.	.07	.18	.07		.10	T.		.37		2.56					
Sagerstown.....	Allegheny.....	.15					.48	.02		.36									.18	1.01		.12	.31	.35					.04		.60		3.62				
Sharon|||	Beaver	.13	T.			*	*	.22	T.	.30	T.							*	.05		.91	.26	.03	.03	.27	.04				.05	.06		2.45				
Somerset.....	Youghiogheny	.35	.25				.77	.20		.41	T.								.02	.26		.24	.02				.05		.42	.33	.42		3.74				
Springdale|||	Allegheny.....	.17	.04				.52	.04	.38	.13	.34								.37	.34	.04	.06	.21	.02		.09			.41	T.		3.16					
Tionesta.....	Allegheny.....																																				
Uniontown.....	Monongahela.....	.37	.02			T.	.55	.18		.42	.02								.65	.02	.02		.15	.02		.01			.55	.07	.13		3.18				
Unity Reservoir||	Youghiogheny	.30	T.				.72	.35		.50									.54			.10	.02	.23		.08		.28	.61	.08		3.81					
Vandergrift.....	Conemaugh.....	.23					.55	.43		.38									.75			.15	.18			.11		.28		.12		3.21					
Warren.....	Allegheny.....	.05	.02				.76			.14							.26		.06	.60	.40	.13	.30	.32		.10		.26	.08		.58		3.79				
Washington.....	Ohio.....																																				
Waynesburg|||	Monongahela.....																																				
Westford|||	Beaver	.15	T.				.31			.15								.08		.74		.34		T.			T.			T.	T.	1.77					
West Newton|||	Youghiogheny	.17	.15				.35	.09	.31	.04	.25									.27	.46	.02	.05	.06	.07		T.			.85		3.14					
Lake Drainage.																																					
Erie***	Lake Erie.....	.14				.09	.14			.07				.04	.37	.02	T.		.06	1.00		.11	1.15	.03		.13	.03			.03	.01	.28	3.70				
West Bingham.....	Genesee.....	.60	.10			1.31				.04				T.		.12			.25	.95		.32	.40	.25					.13	.23		4.70					

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. †† Post Office address:—Greensburg. † Daily amounts inconsistent.

Daily Temperatures for April, 1924

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Allentown.....	Maximum ...	29	39	49	61	67	57	55	57	51	58	59	63	72	71	62	51	46	54	60	59	54	60	61	69	61	64	71	76	56	54	....	58.4
	Minimum	27	25	25	27	30	33	42	38	33	39	37	34	36	43	40	37	36	39	39	36	36	40	42	37	46	38	34	40	48	42	....	36.8
Altoona.....	Maximum	32	34	53	64	65	60	47	53	49	53	54	63	69	71	62	59	54	46	55	54	50	52	56	68	66	61	72	67	56	54	....	56.6
	Minimum	23	22	22	32	36	47	34	29	34	29	29	31	37	50	37	39	39	38	35	34	29	38	34	33	43	23	31	39	47	37	....	34.4
Catawissa.....	Maximum	38	41	54	68	70	53	57	59	46	60	61	61	74	74	63	58	53	51	61	52	51	54	63	71	64	46	72	82	62	53	....	59.2
	Minimum	25	22	15	25	29	37	38	33	28	33	29	29	34	48	36	40	34	36	33	34	31	36	37	30	35	32	34	34	37	36	....	32.7
Chambersburg.....	Maximum	44	38	54	63	66	61	54	57	55	58	60	65	72	76	72	59	54	49	59	61	55	62	62	74	72	62	71	69	63	60	....	60.9
	Minimum	27	19	26	28	30	49	39	34	37	37	32	32	34	44	41	37	42	39	33	37	31	39	39	31	48	37	33	37	52	38	....	36.1
Emporium.....	Maximum	29	36	52	64	66	57	48	57	41	53	52	57	66	65	58	58	49	45	55	53	45	54	55	66	58	61	72	73	59	53	....	55.2
	Minimum	24	23	15	26	26	43	37	27	26	32	25	25	35	43	35	40	43	40	31	30	27	38	35	26	43	29	25	30	47	37	....	32.1
Erie.....	Maximum	32	35	56	61	62	52	43	46	49	47	41	66	66	54	44	52	57	46	51	48	45	51	49	60	49	51	60	60	59	57	....	51.4
	Minimum	24	25	31	46	43	37	32	31	38	34	31	36	46	40	34	39	43	38	39	33	36	37	35	39	41	40	46	44	42	....	37.3	
Grove City.....	Maximum	24	25	31	46	43	37	32	31	38	34	31	36	46	40	34	39	43	38	39	33	36	37	35	39	41	40	46	44	42	....	37.3	
	Minimum	24	25	31	46	43	37	32	31	38	34	31	36	46	40	34	39	43	38	39	33	36	37	35	39	41	40	46	44	42	....	37.3	
Harrisburg.....	Maximum	34	40	50	62	66	55	50	50	47	56	50	64	70	73	58	54	49	49	59	60	52	60	61	71	60	61	72	72	61	56	....	57.9
	Minimum	26	27	32	34	30	48	40	39	38	40	40	37	44	54	42	45	42	38	41	42	38	41	43	43	43	41	44	45	51	46	....	41.0
Holtwood.....	Maximum	26	27	32	34	30	48	40	39	38	40	40	37	44	54	42	45	42	38	41	42	38	41	43	43	43	41	44	45	51	46	....	41.0
	Minimum	26	27	32	34	30	48	40	39	38	40	40	37	44	54	42	45	42	38	41	42	38	41	43	43	43	41	44	45	51	46	....	41.0
Indiana.....	Maximum	34	38	53	67	67	61	50	56	54	55	57	65	63	72	65	67	67	55	58	76	68	60	58	71	69	65	71	67	58	60	....	60.9
	Minimum	29	25	29	30	33	46	33	29	40	34	37	30	34	45	38	40	45	41	31	30	24	38	33	29	41	35	36	41	46	40	....	35.4
Mifflintown.....	Maximum	42	41	57	68	71	64	55	61	54	63	61	67	74	76	67	60	55	47	58	63	52	57	63	70	73	66	77	77	66	59	....	62.1
	Minimum	26	26	32	27	31	49	40	37	35	40	35	31	39	46	41	45	48	39	38	37	36	45	41	49	36	37	34	39	51	40	....	38.2
Philadelphia.....	Maximum	39	42	51	62	67	56	54	58	51	52	60	65	72	76	61	53	48	58	61	61	55	64	63	70	62	62	73	76	62	56	....	59.7
	Minimum	30	27	31	38	42	49	42	40	41	41	46	40	46	50	44	40	40	40	43	44	40	44	41	46	49	43	48	52	54	46	....	42.6
Pittsburgh.....	Maximum	35	40	55	66	65	55	43	53	60	51	54	64	68	70	65	71	62	53	57	54	67	54	57	72	67	65	72	59	62	57	....	59.1
	Minimum	27	26	31	40	43	41	33	29	45	38	36	39	46	53	45	46	52	41	40	37	36	39	37	41	47	41	45	49	50	44	....	40.5
Reading.....	Maximum	32	38	49	62	67	52	52	58	48	57	58	64	71	74	62	53	46	54	60	60	52	60	62	69	61	63	72	76	60	53	....	58.2
	Minimum	26	25	30	33	37	48	40	38	36	40	42	37	45	47	42	40	40	40	41	40	37	42	42	40	46	41	42	45	50	46	....	39.9
Scranton.....	Maximum	28	35	49	63	70	54	49	53	47	53	53	62	68	66	53	57	44	49	56	52	49	59	56	64	54	60	71	77	65	54	....	55.7
	Minimum	22	23	25	31	35	43	36	36	31	38	34	33	46	41	34	40	37	38	36	35	34	42	40	38	40	36	41	38	52	44	....	36.6
Somerset.....	Maximum	22	23	25	31	35	43	36	36	31	38	34	33	46	41	34	40	37	38	36	35	34	42	40	38	40	36	41	38	52	44	....	36.6
	Minimum	22	23	25	31	35	43	36	36	31	38	34	33	46	41	34	40	37	38	36	35	34	42	40	38	40	36	41	38	52	44	....	36.6
State College.....	Maximum	30	35	52	61	65	57	45	54	44	53	44	62	60	60	57	54	47	44	55	53	48	52	56	63	63	59	73	70	54	54	....	54.1
	Minimum	22	21	25	30	35	45	33	30	33	28	32	28	35	48	34	38	42	35	34	37	30	39	34	34	43	33	34	40	45	39	....	34.5
Towanda.....	Maximum	30	34	47	64	63	52	48	51	44	54	49	60	67	64	52	56	49	46	54	54	49	54	54	63	54	58	68	72	64	57	....	54.4
	Minimum	20	23	9	23	29	46	36	33	24	33	29	28	42	47	31	39	31	38	32	30	30	39	37	30	38	32	31	31	48	37	....	32.5
Uniontown.....	Maximum	35	38	56	66	65	60	48	52	61	55	55	67	70	77	70	71	65	55	59	57	69	68	60	75	71	69	73	67	62	62	....	61.9
	Minimum	31	25	25	31	37	47	34	32	39	39	32	37	38	42	41	50	52	43	35	42	29	43	33	33	44	43	39	40	49	45	....	38.3
Warren.....	Maximum	28	30	45	57	58	58	43	42	45	40	45	52	60	60	51	54	50	50	48	46	36	41	55	50	50	45	62	70	50	49	....	49.3
	Minimum	22	25	19	29	30	40	40	27	26	27	30	40	28	46	32	37	42	38	36	40	25	35	26	29	40	42	29	32	43	38	....	32.8
Wellsboro.....	Maximum	30	35	54	63	67	54	46	50	42	55	53	57	65	63	53	55	49	43	54	59	45	45	54	65	57	56	70	78	62	54	....	54.4
	Minimum	20	21	8	25	27	33	30	26	33	26	25	38	43	28	36	43	28	36	28	29	25	35	35	27	37	27	25	24	45	35	....	29.4
Williamsport.....	Maximum	49	39	53	65	65	62	54	56	55	57	58	62	71	72	67	58	56	46	60	59	52	59	63	72	71	63	75	76	75	63	....	60.8
	Minimum	25	22	23	28	33	48	40	34	31	40	32	32	39	45	38	39	38	38	36	35	33	43	38	33	46	37	35	39	51	40	....	36.4

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXIX.

MAY, 1924.

No. 5.

GENERAL SUMMARY.

May was unusually cold and wet, it being the coldest May in the history of the State weather service with the single exception of 1917. Light overcoats were worn in the early morning hours during the entire month. There was an average of seventeen days with 0.01 inch or more of rainfall, and the soil was kept in an almost saturated condition during the whole month. Farmers made little progress with seeding operations, for during the short intervals of fair weather the soil was too wet to work. The result was that at the end of the month the crop season was fully a month late. Corn planting had little more than made a start and oats were not all seeded. Truck crops were the latest for many years. Seeds germinated slowly, if at all, and the growth of most vegetation was slow when it did appear above the ground. About one-half of the field potatoes were planted during the month, but much of the seed rotted in the ground. Grasses and the winter grains made a fair to good growth, as they do not require so high temperatures as most other crops do. Pastures were so wet and soft in some places that stock could not be turned into them, although there was ample feed. Clover and alfalfa, which had been winter killed to some extent, made a good recovery and at the end of the month were generally in good condition. The lateness of the season was not without its compensations for vegetation was held nearly dormant until the worst frosts were over and there was little frost damage. No damage to orchard fruits was reported, but a few reports indicated that the wet weather had interfered with pollination, and that in consequence the set of fruit was light. The excessive rainfall caused severe and damaging floods in the Ohio basin on the 12th and 13th. Elsewhere streams were raised bank full but little damage was done.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 75 stations, was 54.6°, or 5.0° below the May normal. The highest mean was 59.2° at Philadelphia, and the lowest was 45.4° at West Bingham. The highest temperature recorded during the month was 92° on the 6th, at Carlisle and Hanover. The lowest temperature recorded during the month was 18° on the 2d, at Muncy Valley. The greatest daily temperature range was 52° on the 6th at Bradys Bend and Clearfield.

PRECIPITATION.

The average rainfall, as shown by the reports from 112 stations, was 5.71 inches, or 1.87 inches more than the May normal. The greatest monthly amount was 9.64 inches at Cresson, and the least was 3.31 inches at Wellsboro. The greatest amount in any 24 consecutive hours was 3.08 inches at Penn Line on the 8th and 9th. Traces of snow occurred at Clearfield, Corry, and Warren on various dates.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total move- ment, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	Highest	Direction	Date
Erie.....	179.8	451.8	40	77	73	10,337	13.9	42	sw.	24
Harrisburg.....	245.3	446.2	55	69	63	5,422	7.3	37	sw.	18
Philadelphia.....	261.9	446.2	59	70	64	7,829	10.5	39	sw.	18
Pittsburgh.....	223.9	449.0	50	70	60	8,624	11.6	44	sw.	3
Reading.....	236.0	446.0	52	82	82	5,420	7.3	25	nw.	18
Scranton.....				88	84	6,065	8.2	38	sw.	18

* For any five-minute period.

COMPARATIVE DATA FOR MAY

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	57.3	91	24	4.24	8.41	2.26			
1889.....	60.4	96	25	5.91	12.41	2.51			
1890.....	58.5	89	23	6.71	12.41	2.96	7	11	13
1891.....	57.3	93	20	2.12	4.41	0.31	10	10	11
1892.....	58.5	91	28	5.70	9.30	3.77	7	10	14
1893.....	57.9	93	26	5.54	9.20	2.92	11	8	12
1894.....	60.8	92	27	8.88	15.02	2.72	9	8	14
1895.....	60.6	110	22	2.68	6.46	0.86	13	10	8
1896.....	65.4	98	31	2.85	6.30	1.19	10	12	9
1897.....	57.7	88	25	5.24	10.05	1.71	11	10	10
1898.....	60.0	94	22	5.11	10.15	2.79	8	9	14
1899.....	61.1	100	24	3.82	6.40	1.15	10	11	10
1900.....	60.4	96	20	2.79	7.63	0.72	13	9	9
1901.....	58.9	91	28	5.56	7.96	2.24	8	9	14
1902.....	59.8	95	25	1.96	4.45	0.29	13	11	7
1903.....	61.8	94	18	1.67	4.65	0.22	16	9	6
1904.....	61.6	94	21	3.78	7.50	2.07	12	10	9
1905.....	60.8	93	22	2.59	5.17	0.56	11	9	11
1906.....	60.0	99	23	3.23	5.59	0.93	12	10	9
1907.....	54.8	91	19	3.08	6.38	1.44	11	9	11
1908.....	61.2	96	22	6.28	10.95	3.19	10	10	11
1909.....	59.2	92	23	2.90	5.52	1.51	12	10	9
1910.....	56.8	88	24	3.38	6.08	1.73	11	10	10
1911.....	65.2	99	20	1.97	6.81	0.42	17	10	4
1912.....	61.2	91	28	3.15	5.99	0.99	14	8	9
1913.....	58.5	93	21	3.86	6.45	0.48	13	8	10
1914.....	61.5	96	19	3.34	6.52	0.90	16	9	6
1915.....	56.2	84	21	4.16	7.45	2.29	10	8	13
1916.....	61.0	93	26	3.19	6.09	1.49	12	11	8
1917.....	53.3	90	20	3.39	8.09	1.65	9	10	12
1918.....	65.1	95	21	5.04	8.37	1.81	13	12	6
1919.....	59.5	98	27	5.80	13.59	2.86	13	7	11
1920.....	56.6	92	18	2.02	3.65	0.67	17	8	6
1921.....	59.8	93	22	3.93	8.17	0.97	14	8	9
1922.....	62.5	96	20	3.21	7.14	1.69	15	8	8
1923.....	58.3	93	20	3.50	7.43	1.23	19	6	6
1924.....	54.6	92	18	5.71	9.64	3.31	9	9	13

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	4.9	7.9	16	3.6	8	18
Phillipsburg.....	Delaware.....	5.4	10.0	14	3.9	8	22
Mauch Chunk.....	Lehigh.....	4.9	6.4	12	4.1	4	12
Wilkes-Barre.....	Susquehanna.....	8.6	15.7	14	5.8	29	20
Williamsport.....	Susquehanna.....	6.9	15.9	13	4.1	29	20
Harrisburg.....	Susquehanna.....	7.2	14.3	14	5.2	30	17
Freeport.....	Allegheny.....	9.0	16.8	13	5.5	27	22
West Newton.....	Youghiogheny.....	4.4	15.7	12	1.8	28	20
Lock No. 4.....	Monongahela.....	19.4	40.8	13	14.7	28	31
Pittsburgh.....	Ohio.....	13.3	26.4	13	9.2	28	22
Beaver Dam.....	Ohio.....	15.9	35.5	13	8.4	28	30

Climatological Data for May, 1924

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	12	56.8	.....	87	6	35	5	41	5.07	+1.45	1.05	0	19	15	11	5	se.	John A. Frick.
Altoona	Blair	1,615	37	53.5	-5.9	83	6	34	5	39	7.64	+3.62	1.50	0	19	12	8	11	w.	Lewis E. Biller.
Bethlehem	Northampton	295	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. H. Brennecke, Jr.
Biglerville	Adams	652	2	56.9 ^a	.....	89	6	34 ^a	2	44 ^a	5.83	.....	1.92	0	11	9	8	14	w.	R. C. Walton.
Bustleton	Philadelphia	125	5	57.6	.....	83	6	35	4	40	6.24	.....	1.37	0	20	14	5	12	w.	Experiment Station.
Carlisle	Cumberland	467	57	58.4	-3.0	92	6	34	2	48	4.95	+1.12	0.97	0	13	13	6	12	ne.	Prof. C. E. Miller.
Catawissa	Columbia	520	27	55.2	-6.2	87	6	29	5	46	4.93	+1.35	1.18	0	14	16	2	13	.....	H. H. Yetter.
Center Hall	Center	1,272	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. W. Smith.
Chambersburg	Franklin	580	24	57.3	-3.9	87	6	31	5	46	5.78	+2.13	1.39	0	15	10	6	15	.....	William B. Spear.
Clearfield	Clearfield	1,120	14	54.2	-5.6	88	6	28	5	52	6.05	+1.27	1.10	T	16	7	7	17	ne.	E. W. Hess.
Coatesville	Chester	380	36	56.4	-5.3	83	6	31	5	40	5.05	+1.02	1.21	0	15	11	9	11	nw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	14	55.8	.....	86	6	32	5	39	6.22	+2.99	0.87	0	17	12	6	13	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	36	52.4	-6.3	82	6	25	5	44	5.44	+0.99	1.42	0	15	5	11	15	w.	T. B. Lloyd.
Ephrata	Lancaster	380	23	58.4	-2.5	88	6	34	5	44	5.78	+2.25	1.85	0	14	13	6	12	s.	E. K. Hershey.
Freeland	Luzerne	1,970	9	47.7	-4.0	76	6	28	2	40	6.77	.....	1.30	0	19	4	10	17	nw.	Theo. Reichmann.
George School	Bucks	190	17	57.0	-4.0	83	6	34	5	42	6.22	+2.61	1.42	0	19	14	8	9	w.	Prof. N. W. Swayne
Gettysburg	Adams	600	50	58.2	-3.1	91	6	35	2	43	6.67	+2.70	1.07	0	15	7	12	12	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	20	54.2	-4.3	85	6	25	5	46	5.40	+1.64	1.25	0	18	12	6	13	n.	Capt. J. G. Johnson.
Hamburg	Berks	535	31	55.2	-6.5	84	6	31	2	51	5.33	+0.83	1.41	0	13	9	10	12	w.	State Sanatorium.
Hanover	York	600	20	58.2	-5.7	92	6	35	11	41	3.97	+0.67	1.02	0	19	17	4	10	w.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	54	57.7	-4.1	87	6	42	5	34	6.49	+2.82	1.96	0	15	6	9	16	w.	U. S. Weather Bureau.
Hawley	Wayne	900	5	53.2	.....	78	6	27	5	42	5.11	.....	1.30	0	11	8	14	9	n.	J. S. Pennell.
Huntingdon	Huntingdon	650	36	56.0 ^a	-4.7	88 ^a	6	29 ^a	5	50 ^a	6.45	+2.13	1.23	0	20	8	9	14	w.	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Kennett Square	Chester	340	52	57.9	-3.4	85	6	34	5	40	4.95	+0.58	1.12	0	18	15	3	13	nw.	W. P. Mercer.
Lancaster	Lancaster	255	36	58.2	-2.8	88	7	29	5	43	5.07	+1.79	1.23	0	12	15	4	12	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	26	53.0	-4.5	82	7	27	5	42	3.92	+0.06	0.55	0	18	5	16	10	.....	C. P. Darling.
Lebanon	Lebanon	469	83	57.2	-3.8	88	6	35	2	44	5.98	+1.95	1.05	0	17	15	9	7	sw.	S. B. Benzing.
Lewisburg	Union	450	49	57.4	-1.1	89	6	31	5	48	5.03	+1.10	1.18	0	20	8	6	17	sw.	Prof. W. G. Owens.
Lock Haven	Clinton	616	35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. Scott Kift, C. E.
Lykens	Dauphin	680	9	56.0	.....	88	6	29	5	47	5.27	.....	1.07	0	19	10	8	13	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	33	55.8	-4.3	87	6	29	5	46	6.84	+2.83	1.56	0	15	12	6	13	.....	R. K. Wintermute.
Mifflintown	Juniata	445	20	57.1	-3.6	90	6	32	5	47	5.65	+1.91	1.24	0	16	9	4	18	nw	Wellington Smith.
Montrose	Susquehanna	1,720	21	49.8	-5.2	74	7	27	5	36	5.09	+1.39	1.10	0	16	12	8	11	s.	Silas Jagger.
Mt. Pocono	Monroe	1,658	21	46.8	-7.9	72	6	26	2	37	7.85	+4.06	1.30	0	13	13	4	14	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	12	50.3	.....	80	18	18	2	50	6.45	+2.08	1.35	0	14	8	12	11	w.	A. H. Boatman.
Narberth	Montgomery	300	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles Decker.
Neshaminy Falls	Bucks	60	35	56.6	.....	83	6	32	5	41	5.78	.....	1.20	0	14	20	2	9	w.	North Springfield Water Co.
Palmerton	Carbon	398	7	56.4	.....	89	6	31	2	42	3.70	.....	0.57	0	13	11	11	9	ne.	F. G. Breyer.
Philadelphia (a)	Philadelphia	117	53	59.2	-3.7	84	6	45	10	31	4.91	+1.71	1.27	0	16	8	9	14	w.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	8	58.6	.....	84	6	44	5	34	4.73	.....	1.26	0	16	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville	Chester	100	13	57.4	.....	84	6	34	2	39	5.25	.....	1.10	0	15	11	14	6	.....	North Springfield Water Co.
Quakertown	Bucks	496	39	55.2	-4.4	84	6	29	5	45	5.41	+1.39	1.16	0	19	12	6	13	nw.	John E. Benner.
Reading	Berks	325	54	57.2	-5.3	86	6	41	5	31	5.36	+1.99	1.55	0	14	9	10	12	se.	U. S. Weather Bureau.
Scranton	Lackawanna	805	29	55.0	-3.8	81	7	36	5	31	3.91	+0.47	0.72	0	16	3	15	13	s.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	34	56.7	-4.4	87	6	30	5	47	5.20	+1.12	1.23	0	15	7	19	5	sw.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	28	58.3	.....	83	6	38	5	36	6.09	+2.63	0.92	0	15	10	9	12	nw.	W. S. Guiles.
State College	Center	1,217	39	52.8	-6.3	84	6	36	22	43	6.21	+2.24	1.12	0	20	7	15	9	w.	C. A. Kern.
Towanda	Bradford	754	29	52.9	-5.1	80	7	27	5	38	4.09	+0.88	1.14	0	17	5	7	19	nw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	58	50.9 ¹	-5.9	81 ¹	7	26	5	43 ¹	3.31	-0.74	1.09	0	15	7	6	18	sw.	George W. Hill.
West Chester	Chester	455	86	56.8	-3.9	82	6	40	2	35	4.21	-0.24	1.18	0	16	15	6	10	w.	Arthur M. Hay.
Williamsport	Lycoming	521	37	56.6	-4.1	81	6	32	5	41	5.69	+2.49	1.56	0	19	11	6	14	nw.	George A. Beck.
York	York	400	36	57.8	-3.9	89	6	32	5	45	4.97	+1.59	1.05	0	18	11	9	11	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	31	55.5	.....	86	7	34	5	44	5.43	+2.31	0.79	0	20	7	4	20	sw.	U. S. Engineer.
Bradford	McKean	1,427	9	50.6 ^a	.....	85 ^a	7	23 ^a	5	44 ^a	4.92	.....	0.98	0	20	4	14	13	sw.	City Engineer.
Bradys Bend	Armstrong	930	6	51.0	.....	86	7	24	2	52	7.93	.....	1.55	0	19	8	12	11	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Fawcett.
Claysville	Washington	1,150	20	55.2	-6.1	88	7	32	5	40	6.58	+3.14	1.70	0	22	11	6	14	nw.	J. L. Melvin.
Corry	Erie	1,430	12	50.6	.....	85	7	27	5	39	4.50	.....	0.87	T	21	7	12	12	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	27	55.2	-6.3	88	7	33	5	44	8.70	+5.25	1.45	0	21	6	12	13	w.	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	6	50.4 ^a	.....	80 ^a	6	25	5	36 ^a	7.44	.....	1.42	0	20	12	6	13	w.	D. H. Jones.
Elk Lick	Somerset	2,680	7	49.8	.....	81	6	28	5	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. S. Stevanus.
Franklin	Venango	957	51	52.0	-6.0	85	7	28	5	41	6.73	+3.24	1.76	0	16	.....	.....	.....	.....	F. E. Dixon.
Greensburg	Westmoreland	1,150	16	54.6	-5.9	85	6	34	5	39	7.15	+3.42	1.47	td						

Daily Precipitation for May, 1924

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh	.31						.03	.33	.79	.22	.24	1.05	.18	.03	.40				.45	.06	.22	.09	T.	T.	.29		.06	.20	.04	.63	.25		5.07
Altoona	Juniata	.61	.15	.31					.90	.85		.63	1.50	.05	.34	.04	T.			.63	.22	.03	.35		.10		.06	.20	.04	.63			7.64	
Ansonia|||	W. Br. Susq.	.51		T.	.48			T.	.16	.15	.49	.11	1.14	.17	T.	.38				.42	T.		.05			.63	T.		.12	.11	T.	T.	4.92	
Bethlehem	Lehigh																																	
Biglerville	Susquehanna							T.		1.56	.22		1.92		.16	.02	.03			.23		.56			.23		.50		.40				5.83	
Bloersville	Lower Susq.	.12							1.40	1.00	.15	.95	1.33		.25					.26	T.		.37		.05		.43	T.	.38				6.69	
Bustleton	Lower Del.	.18							.72	.73	.04	.23	1.37	.03	.19		.01			.16	.02	.10	.51	.02	.89	.20	.20	.17	.42	.05			6.24	
Carlisle	Lower Susq.		T.	.03					.75	.76	.18	.72	.97		.19	.06	T.			.22	T.	.34				.20		.31	.02	.40			4.95	
Catawissa	N. Br. Susq.	.10		.38					.08	1.02		1.18	.25		.30					.28		.28	.18			.17		.29	.08	.34			4.93	
Center Hall	Susquehanna																																	
Chambersburg	Potomac	.08		T.		T.		.14	.70	.71	.07	.83	1.33	.05	.19	.05	T.			.23		T.	.51			.03		.42		.38			5.78	
Clearfield	W. Br. Susq.		T.	.18	.45	T.			.96	.68	T.	.42	1.13		.35	.06				.40	.03	T.	.30			.50	.08	.06	.13	.32			6.05	
Coatesville	Lower Del.	.04							.73	.55		.39	1.21		.12	.15	.03			.13		.05	.57		.44		.25	.04	.35			5.05		
Colebrook	Lower Susq.	.02		T.				.14	.85	.87	.10	.80	.83		.63	.06	.03			.22	T.	.03	.40		.42		.38	.04	.40	T.		6.22		
Conshohocken	Schuylkill		.11				T.		.79	.60	T.	.30	.74	.02	.39		.01			.10	T.	.11	.46			.82	.01	.20	T.	.31	T.		4.97	
Cresson|||	Juniata																																9.64	
Doylstown	Lower Del.											.24	1.18		.32	.12				.50		.11			.53		.17	.21	.27			5.44		
Emporium	W. Br. Susq.	.32	T.	.15	.31	T.			.46	.55					.32	.12				.50					.53		.17	.21	.27			5.44		
Ephrata	Lower Susq.						.05		.32	1.85	.07	1.32	.15		.39		T.			.30		.02	.51			.24		.20	.05	.31			5.78	
Forest City	N. Br. Susq.		T.	.48					.14	.57	.09	.15	1.17	.22		.72	T.			.41	T.	.16	.07		.11	.03	.02	.09	.17			4.60		
Freeland|||	Lehigh	.37		T.	.11				.20	.51	.86	.25	1.30	.31		.60	T.	T.		.69	.10	.32	.09		.33	.02	.01	.22	.08	.40		6.77		
George School	Lower Del.	.32		.04					.45	1.04	.03	.22	1.42	.02		.19				.12	.03	.41	.02		1.07	.25	.06	.20	.32	.01		6.22		
Gettysburg	Potomac								.65	.82	.20	.82	1.07		.25	.09	.02			.18		.08	.51			.86		.65	.04	.43			6.67	
Girardville|||	Susquehanna	.37		.02	.03				.36	1.56	.06	.94	.40	.49		.31	.01	.01		.31	.01	.39		.23		.27	.07	.30				5.82		
Gordon	Lower Susq.	.17							.38	1.25	.09	.44	.92	.06	.08	.26				.33	T.	.05	.31	.02		.42		.26	.09	.26	.01		5.40	
Gouldsboro|||	Lehigh	.37							.25	1.10	.28	.26	1.24	1.05		.25				1.40	.11	.26			.26		.20	.32	.54			7.89		
Graterford	Schuylkill	.31						.30	.31	.14	.04	.17	.96		.28					.17		.29	.08		.05	.17		.41	.16	.68	.06		4.58	
Hamburg	Schuylkill	.08						.11	.23	1.41		1.01	.21		.51					.32		.28			.51		.23	.18	.25			5.33		
Hanover	Lower Susq.	.02						.02	.08	.29	.28	.52	1.02		.09	.02	.02			.08		.09	.38		.02	.17	.02	.37	.07	.41			3.97	
Harrisburg***	do.	.01		T.				.13	1.77	.87	.21	1.18	.44		.30		.01			.21	T.	T.	.24		.09	.09	.51	.03	.49			6.49		
Hawley|||	Upper Del.	.35		.23				.08	.40	.18		* 1.30	.45	T.		.87	T.								.86							5.11		
Holtwood|||	Lower Susq.	.42						.120	.79			.13	1.10	.10		.52	T.			.05		.08	.50	.14		.22	.10	.37	.27	T.	.35		6.34	
Huntingdon	Juniata	.50		.06	.16				.78	.73		.60	1.23	.02	.20	.02	.12	.02		.50	.11	.20	.39		.01	.07		.15	T.	.58			6.45	
Jersey Shore	W. Br. Susq.																																	
Kennett Square	Delaware	.48		.05					.53	.17		.23	1.12			.16	.02			*		.11	.56			.50	.35	.06	.23	.08	.27	.03		4.95
Lancaster	Lower Susq.						.07		.65	.65		.58	1.23			.50				.09	.05	.61			.08		.16		.40			5.07		
Lansford|||	Lehigh	.24		T.					* .30	.97	.50	* 1.36	.15			.49		.01		.52		.37	.05			*	.53		.27	.06	.21		6.03	
Lawrenceville	N. Br. Susq.	.30		.20			.30	.30		.55	.15	.30	.30	.20	.15	.15				.10	.40		.12		.15	.10		.05	.10			3.92		
Lebanon	Lower Susq.	T.					.13	.30	1.01	.22	.36	1.05	.12		.57	T.	T.		.21	.02	.29	.13	.01		.90		T.	.28	.01	.37			5.98	
Lewisburg	W. Br. Susq.	.63	T.	.01	.25	T.			.16	.76	.20	.39	1.18	.02	.08	.01				.33	.02	.02	.40		.04		T.	.11	.01	.38	.03		5.03	
Lloyd	W. Br. Susq.																																	
Lock Haven	W. Br. Susq.																																	
Lykens	Susquehanna	T.						T.	.73	.71	.18	.42	1.07	.04	.08	.17				.55	.04	.05	.35	T.	.01	.16	.03	.23	.06	.38	.01		5.27	
Mauch Chunk	Lehigh	.05		.04					.47	1.56	.70	.42	.99		.49					.58		.15	.33			.56		.13	.14	.23			6.84	
Mifflintown	Juniata	.23		.24					1.16	.56	.10	.56	1.24		.08					.32	.03	.07	.35			.08		.15	.02	.46			5.65	
Montrose	N. Br. Susq.	.66		.04	.25	T.			.12	.85		.20	1.10	.05	.43	.18	.05			.36		.13	T.		.30		.10	.27				5.09		
Mount Pocono	Upper Del.								1.30	.70		.70	1.12		.61					.30		.60	T.		1.20		.60	.20	.16			7.85		
Mount Union|||	Juniata			.26					2.01	.50	T.	1.87	*	.16		*		.18			.40	T.	T.		.10	.60		.16		.20			5.78	
Muncy Valley	W. Br. Susq.	.85	T.		.54				.12	.73	.21	.36	1.35		.51					.40	T.	T.		.32		.25		.16	.50	T.			6.45	
Narberth	Lower Del.								.05	1.20	.10	.05	1.10	.42	T.	.15	T.			.41	T.		.16	.17			.32	T.	.32			5.78		
Neshaminy|||	Lower Del.	.43		T.					.21	.46	.42	.20	.57	.																				

Daily Precipitation for May, 1924—Continued from page 19

Stations	Drainage Basin	Day of month																															Total				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Irwin.....	Youghiogheny	.14		.07					1.09	.40		.14	.85	.01	.40	.18	.12	.01	.51	.06	.02	.09		T.	.16	.05	.03	.07	.09	.57			5.06				
Johnstown.....	Conemaugh.....	.50	T.	.20	.13				.92	.61		.53	1.46	.03	.31	.03	T.		.61	.10		.34			.10	.06	.25	.05	.01	.52	.01		6.77				
Ketner.....	Allegheny.....	.28		.11	.32				.66	.50	.03	.06	.70	.03	.30	.14		.03	.90						.40		.04	.06	.40	.20			5.16				
Linesville||	Beaver.....																																				
Lock No. 4|||	Monongahela.....	.65		.52					.16	.64	T.		1.55	.10	.11	.38	T.	.05		.39	.02	.11		T.		.46	T.	.03	.02	.10	.52		5.81				
Lycippus.....	Conemaugh.....	.54		.30					1.05	.80		.24	1.20	.05	.45	T.	.06		.60	.03	.22	T.	T.	.25	T.		.13	.10	.60			6.62					
Martin.....	Monongahela.....	.60		.72					.13	.59			1.42	.38	.03	.54	.08	.07		.44	T.	.06	T.	.02		.14	.01	.02	.19	T.	.33		5.77				
New Castle|||	Beaver.....	.78		.02	1.20			.03	1.04			.70	.18	.28	.71				.90	.01				.30		.27		.03	.11	.06	.30		6.92				
Newell.....	Monongahela.....																																				
Parkers Landing|||	Allegheny.....	.40		T.	.55		T.		.26	2.38	.05		.35	T.	T.	.35		T.		.61	T.			.03	T.	.42	.11	T.	.03	T.	.40		5.94				
Pennline|||	Beaver.....	.34			.47		.06		.40	3.08	.24		.26	.29	.16	.32		.37		.37			.03	.42	.07	.14			.04	.03			6.72				
Pittsburgh***	Ohio.....	.06	T.	.33			T.		.73	.46		.41	.70	T.	.20	.09	.07		.34	.11	.02	.03	T.	T.	.25	.01		.07	.10	.56			4.54				
Ridgway||	Allegheny.....			.58					.82	.51			1.02		.20	.26		.78					.28		.06		.26	.31	.03				5.11				
Saltsburg|||	Conemaugh.....	.66			.65				.25	2.55	.05		1.10	.38	.20	.40			.49	.16	.25			.02	.30	.04	.01	.08	.14	.52			8.25				
Saegertown.....	Allegheny.....	.06		.55		.02			1.05	1.00	.05		.55	.06	.23	.12	*		.21				.55	.02	.08		.08						4.63				
Sharon|||	Beaver.....		.39		.50				.05	.96	T.		.60	.15	.28	.10			.58			T.	T.	.33	.37		.02	.04	.02	.33	T.		4.72				
Somerset.....	Youghiogheny.....	.35	.33	.10	.42				1.02	.45		.38	1.51	.07	.30	.07		.54				.45		.40		.05	.42		.45				7.31				
Springdale|||	Allegheny.....	.52			.50				.13	1.15	.02		.92	.06	.06			.04		.44	.18	.07	T.	T.	T.	.26	.04	.02	.15	.17	.53		5.26				
Tionesta.....	Allegheny.....																																				
Uniontown.....	Monongahela.....	.55		.38	.37				.45	.48		.18	1.87	.11	.48	.13	.12		.68			T.	.09		.12	T.	.03	.16	.08	.44	.01		6.73				
Unity Reservoir||	Youghiogheny.....	.70		.04	.39				.85	.92		.20	1.34		.41	.16			.68	.08	.02	.15		.36		.03	.08	.26	.57			7.24					
Vandergrift.....	Conemaugh.....																																				
Warren.....	Allegheny.....			.40	.18		.03	.20	.82	.66	.15		.23	.25		.13		.58					.59	.05		.04							4.31				
Washington.....	Ohio.....	.03	T.	.55					.28	.23		.63	1.16	T.	.47		.13		.54	.04	.03	.07	T.		.14	.01		.08	.17	.58			5.14				
Waynesburg|||	Monongahela.....			.65				.10	.84			1.92	.30		.68		.18	.02	.20	.15	.10	.13		.10	.20		.10	.20	.20	.35			6.42				
Westford|||	Beaver.....	.42			.51				T.	1.66	.03		.45	.19	.24	.34			.35					.36	.05	.08					.17		4.85				
West Newton|||	Youghiogheny.....	.64			.48				.17	.99	.01		1.14	.28	.06	.39			.45	.05	.15					.37	.02	.02	.08	T.	.72		6.02				
Lake Drainage.																																					
Erie***	Lake Erie.....			.10		.06		.14	.75	.58		T.	.62	.02	.46				.91			T.	.01	.04	.23	.14		T.	.02				4.08				
West Bingham.....	Genesee.....	.15		.12	.28				.21	.55	.25	.07	.27	.13	.54	.10			.58			.06			.50	.05		.17	.03		T.		4.06				

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation between the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T. (trace) when precipitation is less than .01 inch. ‡ Incomplete or missing. †† Post Office address:—Greensburg. † Daily amounts inconsistent.

Daily Temperatures for May, 1924

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum	61	69	74	62	69	87	72	62	55	59	50	63	69	74	65	63	74	77	69	62	51	62	73	73	61	65	62	71	66	63	70	66.2		
	Minimum	47	38	44	47	35	46	51	53	44	46	47	47	47	53	51	50	46	53	50	51	46	44	42	55	46	47	47	52	53	50	43	47.5		
Altoona.....	Maximum	54	64	69	57	67	83	79	69	59	64	58	57	67	63	55	60	70	72	64	62	60	59	70	67	58	62	58	64	59	59	64	63.6		
	Minimum	39	35	42	42	34	44	46	56	50	37	45	44	47	48	44	41	46	46	46	43	47	42	34	37	55	35	39	44	54	49	42	37	43.4	
Catawissa.....	Maximum	47	60	75	63	71	87	82	68	57	70	55	62	70	72	63	68	78	79	69	62	51	66	75	76	64	66	64	71	61	65	73	67.4		
	Minimum	33	43	40	46	29	41	48	53	53	46	47	46	46	46	48	44	40	46	43	46	41	37	39	42	36	43	42	50	46	41	36	43.1		
Chambersburg.....	Maximum	60	69	72	64	69	87	83	72	64	65	59	63	70	67	60	62	74	76	70	64	62	62	75	75	65	68	67	69	68	64	70	68.2		
	Minimum	48	34	42	50	31	41	53	56	55	41	48	46	51	48	47	48	41	45	44	53	41	59	42	40	46	55	52	49	38	46		68.4		
Claysville.....	Maximum	58	67	63	59	71	87	88	76	59	69	64	52	70	65	56	63	73	69	67	65	65	64	76	71	58	66	68	66	61	63	70	66.7		
	Minimum	38	41	48	38	32	47	52	56	49	35	46	46	41	50	43	40	45	52	36	49	41	33	41	55	34	37	48	55	48	35	34	43.7		
Clearfield.....	Maximum	55	66	65	59	67	88	86	74	61	68	62	64	73	61	57	63	69	69	62	68	62	65	72	70	62	68	64	63	64	58	67	66.2		
	Minimum	37	30	38	42	28	36	45	57	52	40	41	46	48	45	41	41	37	42	38	47	42	33	38	53	41	47	39	60	54	40	34	42.3		
Coatesville.....	Maximum	62	68	75	62	70	83	71	63	59	58	53	58	70	72	64	65	73	76	69	69	53	61	74	73	62	64	62	73	68	64	68	66.3		
	Minimum	49	35	41	46	31	44	51	54	48	45	45	45	44	51	49	49	46	54	49	52	49	44	34	59	45	38	42	58	54	51	39	46.5		
Emporium.....	Maximum	52	60	66	55	65	82	81	65	62	65	56	58	68	55	57	61	69	68	58	62	53	61	70	69	58	72	60	66	61	58	65	63.2		
	Minimum	38	29	29	38	25	38	40	59	52	45	49	48	49	45	48	38	37	54	38	45	42	31	35	49	38	42	42	54	48	36	32	41.7		
Erie.....	Maximum	48	50	61	52	56	54	67	55	50	61	59	50	66	57	53	63	72	65	49	50	52	53	66	64	54	58	65	64	60	56	60	57.7		
	Minimum	38	36	43	39	40	40	42	44	45	43	40	43	45	46	45	44	53	49	40	38	40	37	44	46	39	42	53	53	48	43	44	47.3		
Greensburg.....	Maximum	56	65	64	60	68	85	80	73	64	69	60	56	69	63	56	59	71	69	63	66	61	61	73	70	57	65	67	64	58	60	67	65.1		
	Minimum	38	40	48	40	34	46	53	56	49	38	46	44	42	49	43	42	43	52	48	42	44	37	43	54	36	42	56	49	40	36	44.1			
Grove City.....	Maximum	55	63	60	59	63	83	85	77	64	65	63	63	65	64	56	62	69	70	57	60	60	60	63	69	71	58	62	63	64	58	58	64.8		
	Minimum	35	36	44	43	31	43	50	57	49	37	49	47	45	50	42	40	45	51	37	36	42	48	50	41	35	37	48	54	50	43	87	43.6		
Harrisburg.....	Maximum	62	68	73	62	70	87	72	64	58	60	53	57	70	70	62	64	73	75	68	61	52	64	74	71	60	66	58	69	64	62	68	65.7		
	Minimum	50	44	47	49	42	53	53	56	51	48	46	47	51	54	59	51	47	54	51	52	49	46	47	52	47	45	51	58	54	52	46	49.7		
Indiana.....	Maximum	58	65	65	59	68	85	84	79	64	70	64	62	66	65	57	59	70	63	64	67	65	60	63	71	56	62	63	61	57	60	63	65.2		
	Minimum	38	33	45	40	30	41	52	56	49	36	42	41	45	46	43	42	43	40	36	47	44	34	37	48	31	36	45	55	49	40	33	41.9		
Johnstown.....	Maximum	56	69	64	60	70	87	85	67	62	66	56	59	70	58	57	59	74	71	67	68	57	65	71	72	71	65	63	65	59	60	69	65.9		
	Minimum	41	41	44	43	34	42	51	59	50	39	48	47	46	50	45	45	54	45	43	50	47	39	41	50	40	47	47	49	51	44	42	45.6		
Lancaster.....	Maximum	63	74	77	74	72	87	88	74	68	60	59	51	73	72	74	68	78	76	75	68	64	66	76	71	70	68	69	75	70	68	73	71.0		
	Minimum	48	31	38	50	29	55	51	55	52	43	44	43	42	46	44	47	39	50	43	51	47	39	36	58	39	38	43	55	52	48	48	45.3		
Mifflintown.....	Maximum	61	69	73	63	72	90	82	71	61	63	58	61	72	68	62	64	75	75	68	62	57	65	76	73	66	65	65	63	62	69	67	67.7		
	Minimum	49	34	42	48	32	43	51	59	55	42	48	47	52	50	46	45	40	47	49	50	46	40	43	61	41	44	43	56	47	47	43	46.5		
Philadelphia.....	Maximum	65	70	75	64	70	84	65	64	55	55	48	61	71	75	68	61	73	77	70	60	53	64	74	75	64	65	66	75	71	66	69	66.9		
	Minimum	53	47	51	54	49	53	52	53	47	45	45	48	49	55	53	53	51	56	56	53	49	48	51	59	49	48	54	58	56	53	49	51.5		
Pittsburgh.....	Maximum	55	64	62	58	67	84	84	67	57	67	59	53	67	58	56	58	70	65	61	64	61	60	72	70	55	63	66	61	59	58	67	63.5		
	Minimum	40	45	48	41	41	52	61	57	51	45	47	47	48	48	44	48	50	52	47	47	45	42	49	46	42	42	51	56	47	41	44	47.3		
Reading.....	Maximum	60	69	75	62	69	86	67	64	58	58	50	59	69	74	61	61	63	77	68	59	51	62	73	72	61	64	61	71	66	64	70	65.5		
	Minimum	47	44	44	49	41	50	53	54	48	46	46	47	48	53	50	50	49	57	52	51	48	44	45	53	46	46	52	67	54	50	46	49.0		
Scranton.....	Maximum	58	64	71	58	67	76	81	65	60	63	51	57	64	72	63	60	73	76	62	55	52	58	68	63	61	63	69	64	63	69	60	58	67	64.0
	Minimum	41	38	44	45	36	45	51	57	48	45	47	45	44	53	51	48	46	54	45	46	40	40	43	50	44	44	44	55	49	46	40	45.9		
Selinsgrove.....	Maximum	59	70	65	61	71	87	85	72	63	68	57	59	69	70	60	66	73	75	68	65	58	63	73	71	65	60	65	69	65	63	70	67.3		
	Minimum	49	33	35	47	30	40	46	59	55	46	47	47	52	47	46	55	52	47	50	42	49	42	59	36	39	43	55	46	47	42	46.1			
Somerset.....	Maximum	52	60	52	55	57	80	78	70	67	65	55	54	56	66	56	57	66	68	66	65	57	60	61	65	55	62	62	61	63	57	64	61.8		
	Minimum	32	35	41	33	37	45	50	53	48	45	44	37	40	44	42	47	43	56	39	47	40	35	42	52	35	36	45	48	46	39	48	42.8		
State College.....	Maximum	54	62	66	54	65	84	78	64	59	62	56	57	68	61	54	60	71	64	63	57	51	58	71	67	57	62	57	65	60	58	63	62.2		
	Minimum	40	37	41	41	45	48	46	53	50	39	45	44	46	48	43	42	41	52	42	45	38	36	43	49	38	37	44	53	47	41	40	43.5		
Towanda.....	Maximum	54	57	69	57	65	66	80	70	64	63	57	59	64	66	59	62	73	73	59	55	48	52	74	73	57	63	61	71	63	59	65	62.9		
	Minimum	45	31	39	44	27	40	43	57	51	47	48	47	47	46	49	42	39	53	41	44	40	36	35	54	36	39	38	56	42	44	34	42.9		
Uniontown.....	Maximum	57	66	66	57	68	86	87	75	65	69	63	63	69	62	58	60	71	72	67	64	61	64	74	73	57	65	69	67	65	63	69	66.8		
	Minimum	41	44	53	42	33	45	52	53	51	38	51	46	45	51	45	41	45	57	40	52	45	37	46	55	37	39	49	59	52	41	38	45.9		
Warren.....	Maximum	52	60	55	50																														

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXIX.

JUNE, 1924.

No. 6

GENERAL SUMMARY.

June was abnormally cold and wet; the temperature being constantly below the normal during the first half of the month. Following a cold May it served to further delay the crop growing season which, by the middle of the month, was from three to four weeks late. Frequent rains made it almost impossible to work the soil, and corn planting was not finished until near the end of the month. The cold wet soil was unfavorable for germination, which was very slow, and much corn and some other seeds rotted in the ground, making replanting necessary. Nearly all crops made a slow growth although the conditions were not so unfavorable for wheat, rye, and the grasses as they were for the cultivated crops. However wheat and rye matured slowly, and in most instances were just beginning to turn color at the end of the month with the prospect that harvest would not begin for about ten days. Truck crops, potatoes, and tobacco grew slowly and were very late. A moderate temperature excess from the 16th to the 25th would have promoted good crop growth if there had been enough sunshine. It was practically impossible to cultivate the fields which became very weedy. Most crops maintained a healthy condition and a good color, and were good except for the slow growth and a poor stand. Orchard fruits were fair to good, the peaches and pears being mostly good, while considerable scab was reported in apples. At the end of the month peaches were better than the average, pears were rated as about an average condition, and apples were little if any better than three-fourths of a crop. Small fruits did well, and the strawberry crop was the best for many years.

A tornado passed across the northwestern corner of the State on the 28th, killing five persons and doing considerable property damage. This was only eight days after the high winds of the 20th that did an equal amount of property damage with no loss of life. Severe local storms, some accompanied by hail, occurred in the eastern part of the State on the 25th.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 78 stations, was 65.8°, or 1.7° below the June normal. The highest mean was 69.3° at Philadelphia, and the lowest was 55.2° at West Bingham. The highest temperature recorded during the month was 98° at Gettysburg on the 20th, and the lowest was 26° at West Bingham on the 1st. The greatest daily temperature range was 43° at Bradford and Brookville on the 15th.

PRECIPITATION.

The average rainfall for the State, as shown by the records from 107 stations, was 5.57 inches, or 1.47 inches more than the June normal. The greatest monthly amount at any station was 9.75 inches at Biglerville, and the least was 2.23 inches at Scranton. The greatest amount recorded in any 24 consecutive hours was 4.57 inches at Creekside on the 28th and 29th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total movement, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	* Highest	Direction	Date
Erie.....	231.7	455.1	51	74	70	8,313	11.5	52	nw.	20
Harrisburg.....	243.3	448.9	54	76	69	3,805	5.3	33	w.	25
Philadelphia.....	282.4	448.9	63	76	66	5,514	7.7	31	ne.	25
Pittsburgh.....	307.6	452.0	68	75	60	6,305	8.8	39	w.	25
Reading.....	231.0	449.0	51	80	77	3,943	5.5	34	nw.	25
Scranton.....	.....	.....	.....	84	76	4,069	5.7	33	sw.	29

* For any five-minute period.

THE LIBRARY OF THE

COMPARATIVE DATA FOR JUNE

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	68.4	100	30	3.04	6.90	1.08	.....	.....	.....
1889.....	66.7	95	33	5.43	10.04	2.71	.....	.....	.....
1890.....	70.1	97	33	3.42	5.74	1.30	12	11	7
1891.....	68.2	100	30	4.50	9.30	1.22	14	8	8
1892.....	71.8	99	40	5.64	10.55	1.83	9	11	10
1893.....	69.8	100	38	3.12	6.50	1.20	10	11	9
1894.....	69.6	102	30	2.57	5.31	0.61	13	12	5
1895.....	71.4	104	32	3.50	9.21	0.69	13	10	7
1896.....	67.4	98	32	4.64	9.11	1.89	10	11	9
1897.....	64.8	96	28	3.38	6.42	1.11	11	11	8
1898.....	69.6	100	33	2.79	6.96	0.56	14	11	5
1899.....	69.9	101	32	3.51	5.97	0.65	13	11	6
1900.....	69.9	97	35	3.60	10.29	1.35	11	12	7
1901.....	69.1	103	32	3.47	7.61	0.88	12	11	7
1902.....	66.0	97	32	5.97	8.93	3.35	11	12	7
1903.....	63.5	90	34	6.53	11.76	3.74	7	10	13
1904.....	67.9	96	32	4.06	6.67	1.62	12	10	8
1905.....	68.0	99	30	4.89	8.35	1.77	11	10	9
1906.....	69.3	97	28	5.43	10.29	1.40	11	12	7
1907.....	63.6	98	30	4.99	8.55	2.79	11	9	10
1908.....	68.8	102	28	2.36	4.61	0.58	19	9	2
1909.....	68.8	96	34	4.48	8.96	1.89	12	9	9
1910.....	65.4	95	32	4.31	8.68	1.33	12	8	10
1911.....	68.3	99	35	4.71	10.11	2.13	12	10	8
1912.....	65.6	96	29	3.36	8.58	0.79	13	9	8
1913.....	68.2	99	20	2.26	7.61	0.66	19	7	4
1914.....	68.6	101	25	3.71	7.05	1.17	16	8	6
1915.....	69.6	89	48	3.30	8.04	0.74	8	14	8
1916.....	63.7	89	28	6.14	12.45	2.83	11	10	9
1917.....	66.8	92	32	5.38	9.85	2.25	12	11	7
1918.....	66.0	98	29	3.42	2.65	0.44	15	11	6
1919.....	71.2	102	32	3.90	9.17	1.74	16	9	5
1920.....	67.0	99	32	4.97	8.37	2.25	12	11	7
1921.....	70.6	101	26	3.12	9.86	0.70	17	9	4
1922.....	69.5	96	30	5.11	12.46	1.78	11	11	8
1923.....	70.9	103	32	2.73	7.99	0.41	16	9	5
1924.....	65.8	98	26	5.57	9.75	2.23	11	11	8

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	2.8	3.8	8	2.1	26	18
Phillipsburg.....	Delaware.....	2.3	3.8	1	1.2	25	22
Mauch Chunk.....	Lehigh.....	4.0	4.4	1	3.8	19	12
Wilkes-Barre.....	Susquehanna.....	4.3	5.6	1	3.4	20	20
Williamsport.....	Susquehanna.....	3.3	10.4	30	1.9	25	20
Harrisburg.....	Susquehanna.....	4.8	7.1	30	4.2	25	17
Freeport.....	Allegheny.....	4.5	20.7	29	2.7	23	22
West Newton.....	Youghiogheny.....	2.0	13.0	29	0.7	25	20
Lock No. 4.....	Monongahela.....	15.0	20.6	11	13.0	27	81
Pittsburgh.....	Ohio.....	9.2	20.5	30	7.3	24	22
Beaver Dam.....	Ohio.....	10.2	26.9	30	7.0	13	30

Climatological Data for June, 1924

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 01 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	12	67.4		91	25	43	1	28	4.85	+1.41	1.17	0	16	10	15	5	w.	John A. Frick.
Altoona.....	Blair.....	1,615	37	64.0	-2.2	89	20	43	5	31	6.27	+2.35	2.40	0	17	13	10	7	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	295	40	67.4	-2.4	89	25	44	1	29	3.26	-0.91	0.53	0	12	.....	.....	.....	sw.	R. H. Brennecke, Jr.
Biglerville.....	Adams.....	652	2	67.4 ^a		94 ^b	20	46 ^c	5	31 ^a	9.75	.....	2.12	0	14	12	10	8	.....	R. C. Walton.
Bustleton.....	Philadelphia.....	125	5	68.4		89	21 ^a	44	1	30	5.04	.....	1.02	0	14	13	9	8	sw.	Experiment Station.
Carlisle.....	Cumberland.....	467	57	68.6	-2.3	95	20	48	5	31	6.67	+2.83	1.89	0	16	14	5	11	ne.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	27	66.6	-1.1	95	20	38	1	38	5.89	+2.00	1.57	0	15	20	7	3	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	28	64.0	-2.1	90	20	44	8 ^a	33	7.44	+3.44	2.75	0	12	16	8	6	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	24	67.6	-1.8	94	20	43	6	36	6.51	+2.50	1.73	0	19	10	9	11	ne.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	14	64.0	-3.3	94	20	36	5	42	5.70	+0.64	2.08	0	15	7	14	9	e.	E. W. Hess.
Coatesville.....	Chester.....	380	36	67.4	-2.5	99	25	43	10	29	6.32	+2.28	1.16	0	17	8	14	8	s.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	14	66.3		93	20	45	1	31	6.42	+2.33	1.80	0	17	15	3	12	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	36	62.7	-3.5	93	20	32	1	37	3.54	-0.99	1.02	0	17	11	14	5	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	23	68.2	+0.2	92	20 ^a	46	10	32	6.44	+2.22	1.28	0	13	12	11	7	s.	E. K. Hershey.
Freeland.....	Luzerne.....	1,970	9	60.4		85	20	36	1	34	5.48	.....	1.10	0	21	7	9	14	sw.	Theo. Reichmann.
George School.....	Bucks.....	190	17	67.4	-0.3	89	25	39	10	35	5.42	+2.19	1.05	0	18	16	8	6	s.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	600	50	68.8	-0.8	98	20	46	5	36	7.77	+3.87	1.85	0	15	10	12	8	sw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	20	63.9	-1.3	86	20 ^a	34	1	38	6.86	+2.46	1.25	0	19	11	11	8	w.	Capt. J. G. Johnson.
Hamburg.....	Berks.....	535	31	65.7	-3.8	87	21 ^a	42	1 ^a	34	6.43	+2.21	.....	0	.....	9	11	10	w.	State Sanatorium.
Hanover.....	York.....	600	20	69.0	-1.6	96	20	47	5	30	7.48	+3.75	2.50	0	16	13	8	9	se.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	54	68.4	-1.9	94	20	51	2	27	6.47	+2.92	1.60	0	18	3	11	16	w.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	5	64.2		87	21 ^a	32	1	38	2.28	.....	0.65	0	12	15	9	6	w.	J. S. Pennell.
Huntingdon.....	Huntingdon.....	650	36	66.4	-1.8	96	20	41	5	37	5.00	+0.52	1.98	0	22	9	12	9	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	4	.....		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	52	68.3	-0.6	91	20	45	10	30	7.59	+3.30	1.55	0	18	13	12	5	nw.	W. P. Mercer.
Lancaster.....	Lancaster.....	255	36	66.8	-3.3	96	20	41	13	39	7.69	+3.70	2.00	0	14	19	3	8	e.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	26	64.2	-1.0	90	20	34	2	42	3.75	-0.14	1.00	0	11	13	11	6	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	83	67.4	-1.9	92	20	45	1	32	8.29	+4.23	1.77	0	19	10	14	6	se.	S. B. Benzing.
Lewisburg.....	Union.....	450	49	67.5	+0.3	97	20	40	1	37	6.25	+2.09	2.25	0	17	11	10	9	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	616	35	.....		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. Scott Kift, C. E.
Lykens.....	Dauphin.....	680	9	66.0		95	20	36	2	38	6.09	.....	1.30	0	17	15	10	5	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	33	66.0	-1.8	87	21 ^a	36	1	33	4.89	+0.59	1.15	0	16	16	5	9	w.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	20	67.0	-0.8	95	20	44	5	37	6.69	+2.33	1.77	0	18	10	6	14	w.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	21	60.6	-2.1	83	19	33	1	33	2.66	+1.16	0.82	0	11	16	8	6	s.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,658	21	.....		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	12	63.0		92	20	33	1	39	5.27	+0.17	1.45	0	13	11	13	6	.....	A. H. Boatman.
Narberth.....	Montgomery.....	300	5	67.0		90	25	45	10	27	6.05	.....	1.16	0	14	10	8	12	sw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	35	66.8		91	25	43	1	31	5.73	.....	0.93	0	15	11	11	8	s.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	7	66.8 ^b		91 ^b	22	37	1	36 ^b	3.68	.....	1.23	0	12	10	14	6	ne.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	53	69.3	-2.1	92	21	51	9	28	4.31	+1.01	0.88	0	13	2	9	19	w.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	8	69.0		91	21	51	10 ^a	26	5.15	.....	1.51	0	13	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	13	67.4		88	21 ^a	44	10	33	7.14	.....	1.26	0	13	.....	.....	.....	.....	North Springfield Water Co.
Quakertown.....	Bucks.....	496	39	65.4	-2.8	89	25	37	1	33	5.04	+1.38	1.11	0	18	7	12	11	sw.	John E. Benner.
Reading.....	Berks.....	325	54	68.0	-1.8	90	25	50	1	23	5.15	+1.48	1.11	0	14	6	15	9	se.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	29	65.4	-1.8	86	29	39	1	30	2.23	-1.34	0.60	0	14	7	10	13	s.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	34	66.8	-2.2	93	20	40	1 ^a	35	5.67	+1.42	1.50	0	14	11	12	7	sw.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	28	68.6		88	29	48	1	27	4.97	+1.50	1.00	0	16	13	11	6	nw.	W. S. Guiles.
State College.....	Center.....	1,217	39	62.6	-3.9	91	20	44	1 ^a	35	5.87	+1.50	1.92	0	14	7	15	8	w.	C. A. Kern.
Towanda.....	Bradford.....	754	29	63.6	-1.7	90	20	35	1	39	3.31	-0.28	0.74	0	13	11	9	10	sw.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	58	61.6	-2.9	93	20	30	1	41	3.34	-0.71	0.97	0	9	17	6	7	sw.	George W. Hill.
West Chester.....	Chester.....	455	86	66.6	-2.8	88	25	47	10 ^a	26	5.57	+1.38	1.18	0	17	10	14	6	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	37	67.6	-0.9	94	20	39	1	34	4.75	+0.85	1.42	0	17	17	2	11	nw.	George A. Beck.
York.....	York.....	400	36	67.5	-2.4	94	20 ^a	43	5	34	7.36	+3.88	1.83	0	14	13	9	8	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	31	68.2		93	20	45	5	36	7.25	+2.60	3.96	0	14	11	6	13	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	9	62.0 ^b		92 ^b	20	28 ^b	5	43 ^b	5.71	.....	1.61	0	17	7	12	11	sw.	City Engineer.
Brady Bend.....	Armstrong.....	930	6	63.4		92	20	36	5 ^a	39	5.12	.....	1.68	0	15	13	4	.....	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	33	61.0	-2.5	91	20	33	5	43	5.09	+0.84	2.16	0	11	19	7	4	.....	John Fawcett.
Claysville.....	Washington.....	1,150	20	68.4	+0.2	95	20	43	2 ^a	36	4.80	+0.65	2.56	0	16	14	8	8	n	J. L. Melvin.
Corry.....	Erie.....	1,430	12	62.6		89	20	34	1	38	4.84	.....	1.65	0	17	13	13	4	.....	Nevin R. Dickinson.
Derry.....	Westmoreland.....	1,172	27	67.4	-1.2	91	20	42	7	33	7.28	+2.43	3.82	0	15	8	19	3	se.	Wm. A. Huff, Jr.
Ebensburg.....	Cambria.....	2,000	6	61.5		86	20	34	5	40	5.99	.....	3.25	0	13	13	8	9	w.	D. H. Jones.
Elk Lick.....	Somerset.....	2,680	7	64.0		85	19 ^a	41	1	29	8.98	.....	3.50	0	14	17	11	2	w.	J. S. Stevanus.
Franklin.....	Venango.....																			

Daily Precipitation for June, 1924

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh	.04				.05	.27			.29	T.		.35	.10	.61	.11	.10			.14	.48	T.											4.85	
Altoona	Juniata	.02	.02	.07	.06		.56		.22	.04		.02	.19	.85							.06			.17	.55	.57		.43	.04	2.40		6.27		
Ansonia	W. Br. Susq.	.03	T.	T.			.08	T.		.12	T.		.22	.20	.22						.06			T.	.41		.17	.08	.39	.32	.02	T.	.83	
Bethlehem	Lehigh	.04					.31	.31	.07				.38	.26	.02						.02		.43		.48			.53		.53		.41		3.26
Biglerville	Susquehanna	.10					.19	1.46	.06	.11			.67	1.51							.44		.35		.03		.53		2.12		1.93		9.75	
Blossville	Lower Susq.																																7.46	
Bustleton	Lower Del.	.02	.28				.03		.15	.35			1.02	.55	.10		.17				.53	.22				.44		.47		.71		5.04		
Carlisle	Lower Susq.	.08	.10	T.	.10		1.38		.20	.04		T.	.41	.64			.23	T.	.04			.02	.04		.02		1.89	.06	1.42			6.67		
Catawissa	N. Br. Susq.	.01		.30			.25		.01	.25			.20	.34		.03					1.57	.17		.18	1.40		.43	.42	.33			5.89		
Center Hall	Susquehanna	.05					.34		.48	.26			.37	2.75							.11		.20		.64		.38	1.49	.37			7.44		
Chambersburg	Potomac	.05	.20	.05			.24		.38	.31		.16	.37	.36			.26	.08	.17			.03	.20	.07	.15		.70	.02	1.71			6.51		
Clearfield	W. Br. Susq.	.02	.05				.25		.41	.35		T.	.20	.60				.03			.22		.10	.20	.35		.28	.36	1.72			5.70		
Coatesville	Lower Del.	.20	.09				.09	.22	.30	.03		T.	1.16	1.06	.09		.34		.01		.59	.05	.02	.28		.78		.78		1.01		6.32		
Colebrook	Lower Susq.	.05	.06	T.			.25	.01	.20	.02	T.	T.	.41	1.16			.25	.04	.19		.31	.03	.03		.43		1.80	T.	1.18			6.42		
Coushock	Schuylkill	.28					.13		.17				1.25	.61	.34		.07	T.	1.28		.18	T.		T.		.48		.36	.65	T.		5.50		
Cresson	Juniata	.05		.08	T.		.57		.27	.03			.07	*							.13	.02	*	.10	*	.43	.05	.04		.06		2.00	4.39	
Doylestown	Lower Del.	T.	.17				.06	.02	.17	.20			.44	.54	.08		.03				.47	T.	*		.02		1.12		.72		1.15		5.36	
Emporium	W. Br. Susq.	.14	.08	.10	.14		.09		.40	.06		.06		.16			T.				.23		.20	.11	.60		.09	.81	.21	.06		3.54		
Ephrata	Lower Susq.	.05					.12	T.		.04			.56	1.27	.03		.20	.07	T.		1.23			.13			1.15	1.14				6.44		
Forest City	N. Br. Susq.			.05			.14	.02	.03	.02			.10	.08	.06						.37	T.		.08	T.	.34	.51		.86	T.		2.66		
Freeland	Lehigh	.03	.02	.10			.06	.20		.25			.12	.09	.30		.01		.06	.38	.86	.06	.02		.28	T.	1.10		.22	.30	.96	.06	5.48	
George School	Lower Del.	.07	.23			.06	.05	.07	.05	.22			.51	.56	.06	.08	.08			.46	.82	.01				1.05		.42		.62		5.42		
Gettysburg	Potomac	T.	.08	.04			.08	.96	.11	.45			.63	.58			.28		.25					.06		.54		1.72		1.85		7.77		
Girardville	Susquehanna	.04		.15	.11		.25		.15	.19		.07	.23	.49		.01	.01	.12	.39		.52	.06		.37	.03	1.00		.79	.12	.92		6.02		
Gordon	Lower Susq.		.06		.43		.28		.19	.18			.46	.76	.02		.07	.08	.07	.04	.41	.60		.34	.08	1.25		.70	T.	.84		6.86		
Gouldsboro	Lehigh			.06	.05		.25	.08	.21				.12	.15				.20			.12			.15		.25		.40		.32		2.36		
Graterford	Schuylkill	.38				.16	.09		.42				.18	.62	.24	.02	.06			.81	.19	.53	T.		.07		1.16		.48		.69		6.10	
Hamburg	Schuylkill																															6.43		
Hanover	Lower Susq.	.01					.16	.48	.28	.38		.02	.49	.97			.26		.01	.02			.02				.49		1.35	.04	2.50		7.48	
Harrisburg	do.	.11		.03	.03		.59		.19	.01	T.		.45	1.00		.32	.09	.64	T.		.02	.02		.01	T.	.02		1.60	.69	.65		6.47		
Hawley	Upper Del.					.04		.15	T.	.03			.16		.08												.40	T.	.65	.39	T.		2.28	
Holtwood	Lower Susq.	.21					.07	.58	.03	.13		.82	.04	.99			.16		T.	.11		T.					.30	.42	1.08	1.07		6.01		
Huntingdon	Juniata	.03	.03	.01	.16	.30		T.	.08	.08	T.	.01	.22	.69	.05	.01	.03	.04	.02	.05		.04			.28	.02	.37		.50	T.	1.98		5.00	
Jersey Shore	W. Br. Susq.						.13	.41	.18	.20			1.20	.80	.05		.19			.07	.53	.07		.03	1.55		.88	.06	.85			7.59		
Kennett Square	Delaware	.05	.34				2.00		.03	.03			.83	1.08	.02		.42		.02		.53		.06		.05		1.26		1.28			7.69		
Lancaster	Lower Susq.	.08					.06	.13		.33		*	.39	.01	*	*	.42		.16	.50		.39	T.		.18		1.08	.15	.38	*	.85		4.88	
Lansford	Lehigh		T.		.24	*	.06							.25													.70		T.	1.00		3.75		
Lawrenceville	N. Br. Susq.	.05		.20		.10		.10	.10		.15		.25							1.00	.10		T.		.97	.90	.51	1.20				8.29		
Lebanon	Lower Susq.	.08		.11		.20	.05	.09		.42		.12	1.77			.14	.29	.61	.01	.78	.02	.02	T.	.97	.90	.51	1.20					6.25		
Lewisburg	W. Br. Susq.	T.	.01		.02		.34		.18	.17	.01		.52	.48			.14		T.		.12	.14	.01	.07	T.	2.25		.45	.01	1.33		3.92		
Lloyd	W. Br. Susq.	.08		.06			.36		.25			.05	.46	.35						.12	.61		.16		.62	.14		.05	.05	.61			6.09	
Lock Haven	W. Br. Susq.																															6.09		
Lykens	Susquehanna	.10	.04		.03		.24	.62	.06	.40		.49	.91			.12		.04	.02		.07		.11		.56		.98		1.30			6.09		
Mauch Chunk	Lehigh		.03	.11		.21		.33				.35	.32	.04		.03	.06	.15		.72	.02		.33	1.15		.35		.69				4.89		
Millintown	Juniata	.02	.07		.27		.42		.06	.24		.10	.22	1.12			.05	.59	.03			.04		.06		.81		.02	1.75			6.69		
Montrose	N. Br. Susq.					.38	.13	.10	.20			T.	.15							.10	.05			.12	.46		.15		.82			2.66		
Mount Pocono	Upper Del.					*	.65		.15			.42	*	.76					.25							*	.72	2.00				6.09		
Mount Union	Juniata	.10	.19		.20		.54		.10	.06	T.		.09	.35	.02	.33	.22			1.16	.16	T.	T.	T.	T.	.12		.51		.72		5.27		
Muncy Valley	W. Br. Susq.						.31		.10	.11		1.03	.72	.25	.33	.22				1.16	.16	T.	T.	T.	T.	.12		.51		.72		6.05		
Narberth	Lower Del.	.31					.10		.52	.02			.40	.40		.93	.03	.10	.08	.55	.25	T.	T.	T.	T.		.83	T.	.42	.82		5.73		
Neshaminy	Lower Del.		.28																															

Daily Precipitation for June, 1924—Continued from page 23

Stations	Drainage Basin	Day of month																															Total				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Irwin.....	Youghiogheny	.01	.11		T.				.11	.06		T.	.11	.03		T.	T.	T.		.11		.01		.15		.13		.18	.05	2.77			3.83				
Johnstown.....	Conemaugh	.06	T.	.10	.07		.85		.38	.01	.38		.10	.40	T.	T.	.03		1.56	T.		.23	.07	.44	.12	.38		.26	.43	2.24	.03		8.14				
Ketner.....	Allegheny	.10	.05	.03	.05		.09		.35	.03		.15	.03	.32			.10				.15		.18		1.20		.09	.23	1.20	.04		4.39					
Linesville|||	Beaver		.08		.46				.43			.02	.12						.10		.05				1.44	.46			2.38	.02		5.56					
Lock No. 4|||	Monongahela		.01	T.	.03		.57	.16		.36			.18	T.	.02		T.			.58		.05	.07	.14	T.			.14		1.56		3.82					
Lycippus.....	Conemaugh																															6.24					
Martin.....	Monongahela		.08	.04	.02		.48	T.	T.	.46			T.		.07		T.			.86		.05	.03	.64	.03	.05	.17		2.25			5.23					
New Castle|||	Beaver	.35		.19			.20		.29	.43	.05	.13						.12	.23					.57	.22	.21		1.37				4.36					
Newell.....	Monongahela																																				
Parkers Landing|||	Allegheny	T.	.30	T.	.05		.05	T.	.60				.02	T.		T.	T.	T.	T.	.05	T.		.11		.85	.67	.22		1.17			4.09					
Pennline|||	Beaver		.08	T.	.16		*		.26		.10								.18		.06		.02		1.47	.41		2.06	.03			4.83					
Pittsburgh***	Ohio	T.	T.	T.	.05		.44	.29	T.		.14	.05	.14		.03				.51			.04		.12	T.	T.		.13	1.87	.58		4.33					
Ridgway.....	Allegheny	.05	.04		.03		.12	.49			.05			.95							.28				1.38		.11	.25	1.79			5.64					
Saltsburg|||	Conemaugh		.02				.56		.23			.04	.09	.52		.03			.78		.09	.04	.48		.80	.14		2.17				5.99					
Saegertown.....	Allegheny	.02		.58	.11			.34			.47		.10					.02			.02				2.12		.02		1.56	.07		5.43					
Sharon|||	Beaver	T.	.12		.33		*	.15		.68		.10		.05								.10	.03		1.17	1.49		.13	1.35			5.70					
Somerset.....	Youghiogheny	.33		.30	...		.85	.40	.55	.41	.09	.03	.04	.20	.03			.03	.25		.09		.56				.51		2.98			7.75		
Springdale|||	Allegheny		.03	T.	.06		.60		.35				.10	.09	.09		.08			.57	T.	.04	.01	.41		.09	.20	.16	2.45			5.33					
Tionesta.....	Allegheny																																				
Uniontown.....	Monongahela	.08	T.				.73		.35	.37			.01						.05		.05		.37	.03			.20		2.65	T.		4.89					
Unity Reservoir||	Youghiogheny	.10		.06			.49		.28	.13			.05	.08					.51		.70		.47				.20	.15	3.55			6.77					
Vandergrift.....	Conemaugh																															4.40					
Warren.....	Allegheny	.12		.40	.20			.18		.38		.10	.41	.64			.02				.62		.23		1.47		.05	.80	.25			5.44					
Washington.....	Ohio	.02	.02	T.	.02		.71		.38	T.		.17	.01	.01		.01			.68	.01		.07		.17		.06		.18	1.38	.66		4.55					
Waynesburg|||	Monongahela	T.	T.	.10		.58	.02		.55	T.	.20			.15				1.04				.48		.04				.22	*	1.03		4.41					
Westford|||	Beaver				.31				.32				T.	.07					T.	.10		.03	T.		1.33	.71	.10		1.32		.08	4.37					
West Newton|||	Youghiogheny		.02	.04	.04		.51	T.		.18			.14	T.			T.			.50		.05	.43	.29		.17	T.	2.25				4.42					
Lake Drainage.																																					
Eric***	Lake Erie	T.		.18	.10		T.		.23		.15		.43		T.				T.	T.	.62	T.			.32	.39			.51	T.		2.93					
West Bingham.....	Genesee	.20			.10		.12		.12		.14	.08	.50	.01					T.		.28	.25		.08		.52		.05	.12	.80	T.		3.37				

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T (trace) when precipitation is less than .01 inch. ‡ Incomplete or missing. †† Post Office address:—Greensburg † Daily amounts inconsistent.

Daily Temperatures for June, 1924

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Allentown.....	Maximum...	68	74	73	74	76	72	78	67	74	74	67	62	62	79	81	84	81	86	86	78	88	87	81	88	91	80	64	79	88	79	....	77.4
	Minimum...	43	52	51	60	49	52	56	54	51	49	52	53	55	57	53	62	59	64	63	69	63	62	61	66	70	57	58	60	65	59	....	57.5
Altoona.....	Maximum...	62	66	67	64	72	74	72	71	64	69	63	70	68	76	77	80	82	79	88	89	80	81	83	83	80	76	65	76	81	72	....	74.3
	Minimum...	44	45	49	51	43	52	48	48	51	55	53	52	58	52	46	54	54	56	57	68	67	54	55	65	62	50	54	58	60	49	....	53.7
Catawissa.....	Maximum...	68	77	75	74	77	82	85	68	77	77	69	65	62	80	85	83	84	85	88	95	86	87	84	88	87	81	74	78	88	79	....	79.5
	Minimum...	38	50	52	56	44	49	50	51	50	48	50	52	59	57	47	47	55	58	59	64	60	55	56	62	66	50	55	58	63	53	....	53.8
Chambersburg.....	Maximum...	66	71	69	71	74	79	81	77	67	69	65	66	66	78	81	83	83	85	87	94	90	84	88	88	88	81	79	78	87	82	....	78.6
	Minimum...	44	51	48	55	44	43	53	54	53	56	54	54	59	54	48	61	61	62	62	68	70	59	58	66	65	59	57	60	64	53	....	56.5
Claysville.....	Maximum...	71	71	70	69	78	78	78	75	76	74	72	83	82	82	81	88	85	93	95	90	87	86	89	82	84	70	82	84	85	79	....	81.0
	Minimum...	49	43	48	52	43	59	44	50	56	58	57	55	62	51	49	61	57	57	57	74	67	54	63	65	68	48	58	57	61	47	....	55.7
Clearfield.....	Maximum...	68	67	69	69	78	80	64	57	69	75	68	78	74	78	77	71	72	80	84	94	86	88	85	90	72	84	70	76	66	73	....	75.4
	Minimum...	40	47	50	53	36	46	46	43	51	46	53	54	55	45	44	51	53	51	56	66	64	62	70	72	52	58	55	53	61	47	....	52.7
Coatesville.....	Maximum...	68	73	73	73	74	74	77	71	70	72	69	63	65	77	81	82	84	83	86	87	83	81	85	89	79	67	77	88	81	...	77.4	
	Minimum...	46	51	52	60	49	48	57	54	51	43	47	54	59	57	53	62	60	67	68	68	65	63	59	69	64	57	56	59	65	59	...	57.4
Emporium.....	Maximum...	62	70	71	64	72	75	70	58	61	73	68	71	68	75	80	75	82	87	86	93	77	81	83	83	74	75	68	79	82	73	....	74.5
	Minimum...	32	49	45	51	43	45	40	45	51	45	55	56	58	50	45	55	47	50	55	65	63	51	55	59	56	45	55	53	61	47	....	50.9
Erie.....	Maximum...	67	65	66	58	68	71	63	57	63	76	65	77	71	75	79	68	73	72	82	88	74	78	83	82	68	74	78	79	76	72	....	72.2
	Minimum...	48	49	54	48	48	57	49	50	49	58	55	57	59	55	56	59	56	63	62	66	65	64	68	66	57	57	62	64	61	55	...	57.2
Greensburg.....	Maximum...	65	69	68	66	74	76	73	74	71	75	69	80	76	81	83	81	85	83	90	91	88	85	85	87	80	78	80	83	82	76	....	78.5
	Minimum...	43	48	50	52	42	56	48	49	57	57	56	52	62	53	51	55	58	57	56	73	66	56	59	64	67	50	57	57	61	48	....	55.3
Grove City.....	Maximum...	64	66	70	62	70	73	66	62	66	74	69	75	77	77	78	79	79	77	86	89	88	80	83	84	82	75	84	78	79	79	...	75.4
	Minimum...	42	47	47	49	40	55	47	49	53	55	57	54	58	52	49	56	53	58	56	74	66	53	65	61	63	47	58	58	65	47	....	54.4
Harrisburg.....	Maximum...	64	72	70	72	75	74	79	67	70	70	66	65	65	78	82	82	84	83	86	94	88	86	86	84	88	80	66	73	88	78	...	77.2
	Minimum...	54	51	57	56	53	56	59	57	52	53	52	54	59	59	55	62	62	64	65	70	68	67	64	73	66	63	58	60	64	59	...	59.7
Indiana.....	Maximum...	66	70	67	67	74	76	77	79	71	75	73	81	76	78	80	85	85	84	88	90	92	90	83	87	83	78	82	80	79	79	...	79.1
	Minimum...	44	55	51	52	41	42	42	44	51	56	56	50	53	50	53	58	56	55	57	56	54	57	64	65	63	48	55	53	49	...	52.7	
Johnstown.....	Maximum...	64	69	70	68	79	78	75	80	70	76	66	85	75	83	85	86	85	82	91	92	82	88	89	86	83	83	77	85	81	79	...	79.7
	Minimum...	48	56	50	53	44	53	50	49	57	58	57	56	61	57	60	58	59	57	62	72	69	58	57	68	67	55	59	63	63	51	...	57.6
Lancaster.....	Maximum...	63	76	77	76	78	79	82	68	74	70	70	68	67	81	84	89	87	85	89	96	91	89	87	87	90	83	70	77	80	80	...	80.1
	Minimum...	44	48	50	55	43	46	55	52	49	42	42	51	41	55	49	50	58	61	61	67	65	65	59	55	63	66	53	54	57	63	...	53.6
Mifflintown.....	Maximum...	60	72	74	71	76	74	77	76	69	71	65	66	66	79	81	82	85	81	90	95	86	83	88	90	87	82	77	70	86	77	...	78.0
	Minimum...	46	48	53	53	44	50	51	51	52	48	51	53	57	56	57	58	57	60	62	68	70	60	57	70	67	45	58	60	63	55	...	56.0
Philadelphia.....	Maximum...	69	72	73	75	73	72	80	72	69	73	68	63	66	77	82	84	85	82	83	94	92	85	82	87	90	80	69	76	90	79	...	77.7
	Minimum...	54	54	57	59	56	58	63	53	51	53	52	54	57	57	60	64	65	67	68	67	64	70	67	74	65	63	67	62	61	66	...	60.9
Pittsburgh.....	Maximum...	64	67	69	64	75	76	73	72	72	76	68	80	77	80	80	78	84	77	89	91	93	83	84	85	80	73	78	84	79	74	...	77.3
	Minimum...	55	53	55	53	50	59	54	54	57	62	60	58	66	59	61	60	64	63	78	67	60	67	68	63	56	62	64	58	55	...	60.0	
Reading.....	Maximum...	64	73	72	73	76	72	78	67	70	70	68	63	62	78	83	83	84	86	86	88	86	82	86	90	69	63	76	88	78	...	76.9	
	Minimum...	50	52	57	59	53	59	59	54	52	50	51	53	58	57	56	62	62	67	66	66	64	66	65	70	62	60	59	60	65	59	...	59.1
Scranton.....	Maximum...	67	74	73	64	74	68	71	62	75	75	68	62	62	76	82	78	82	86	83	83	84	81	84	78	77	65	80	86	75	...	75.1	
	Minimum...	39	52	53	53	50	48	54	50	50	50	50	51	58	57	53	59	48	63	62	67	67	62	59	66	57	54	56	60	62	58	...	55.6
Selinsgrove.....	Maximum...	69	72	71	72	76	75	78	76	72	72	67	65	65	80	83	83	82	85	88	93	85	87	87	87	86	80	74	71	86	83	...	78.3
	Minimum...	40	40	55	57	45	51	60	52	51	47	47	53	58	57	48	56	60	60	62	71	68	57	57	64	62	51	58	60	62	54	...	55.4
Somerset.....	Maximum...	56	75	66	68	72	76	77	72	73	74	72	85	73	77	84	82	84	81	90	88	88	84	84	73	81	86	72	81	80	75	...	77.6
	Minimum...	48	44	48	48	42	54	46	62	48	52	52	54	52	53	56	58	60	56	65	70	71	64	57	63	63	50	56	57	61	45	...	55.2
State College.....	Maximum...	62	60	61	60	74	67	67	62	67	63	61	64	64	74	80	79	82	77	86	91	81	82	84	86	73	76	67	71	72	74	...	72.2
	Minimum...	44	44	51	49	44	52	49	47	48	49	50	49	55	53	45	56	53	58	57	67	66	53	60	63	64	51	53	52	56	48	...	52.9
Towanda.....	Maximum...	69	71	73	64	73	69	69	59	72	76	71	64	62	75	78	78	82	78	85	90	80	82	80	84	77	76	67	80	84	74	...	74.7
	Minimum...	35	49	50	54	49	48	46	49	49	46	48	52	51	54	48	58	43	60	56	67	66	54	55	59	57	50	56	54	64	52	...	52.6
Uniontown.....	Maximum...	65	72	70	68	75	79	76	73	75	78	67	83	82	80	82	83	87	86	90	92	88	85	86	85	86	82	78	86	84	84	...	80.2
	Minimum...	48	48	49	55	43	59	50	53	60	59	54	65	55	51	63	58	60	59	75	71	59	61	68	69	53	60	61	65	50	...	58.0	
Warren.....	Maximum...	55	66	68	70	65	77	68	58	75	71	66	80	76	78	78	70	84	80	93	76	85	82										

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXIX.

JULY, 1924.

No. 7

GENERAL SUMMARY.

The low temperatures that had prevailed during April, May, and June continued during the first week in July, and were followed by a moderate excess during the second week and mostly seasonable temperatures thereafter. The rainy conditions ceased with June, and July was abnormally dry, the rains being mostly light and scattered except on the 13th, when moderately heavy showers were fairly general. Crops continued to grow and develop slowly during the first week of July, and wheat harvest, which usually begins about the first of the month, did not get under way until the middle of the month. Corn was very backward, and even the early plantings did not begin to tassel until the last week, while many late planted fields were not more than eighteen or twenty inches high at the end of the month. Except for being late, the corn crop was in a good healthy condition and was doing well. Oats harvest began in some places just at the close of the month, and the crop was generally reported as good to excellent. Some wheat threshing was done, but no large yields were reported, and it seemed that the crop as a whole was somewhat below the normal. This was due in part to the unusually large losses from lodged grain. The month was favorable for haying, and a large amount of good to excellent quality of hay was cut and stored. Many correspondents reported the hay crop as being the best for five or six years. Truck crops, which were mostly very weedy during June, were cleaned up and put in good condition. Apple scab caused an unusually large amount of fruit to drop from the trees, and in some sections there was little left. Pears seemed to be a fair crop, while peaches were generally reported to be better than the average. The month as a whole was favorable and brought considerable improvement over the conditions that prevailed all during the earlier part of the season. There were many less than the usual number of severe local storms.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 79 stations, was 69.7°, or 2.3° below the July normal. The highest mean was 75.6 at Philadelphia, and the lowest was 61.1° at West Bingham. The highest temperature recorded during the month was 97° at Gettysburg, Lebanon, and Phoenixville on the 30th, and the lowest was 34° at Ebensburg and West Bingham on the 19th. The greatest daily temperature range was 47° at Brookville on the 20th.

PRECIPITATION.

The average rainfall for the State, as shown by the records from 121 stations, was 3.42 inches, or 0.79 inch less than the July normal. The greatest monthly amount at any station was 7.12 inches at Huntingdon, and the least was 0.71 inch at Pottstown. The greatest amount recorded in any 24 consecutive hours was 2.69 inches at Scranton on the 8th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total movement, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	Highest	Direction	Date
Erie.....	260.3	461.4	56	72	66	8,241	11.1	47	sw.	12
Harrisburg.....	304.6	455.2	67	74	62	3,934	5.3	18	s.	7
Philadelphia.....	362.7	455.2	80	70	60	5,614	7.5	29	n.	17
Pittsburgh.....	367.2	458.3	80	79	63	5,766	7.8	44	w.	12
Reading.....	308.0	455.0	68	75	71	3,993	5.4	27	nw.	17
Scranton.....				84	72	4,606	6.2	28	w.	17

* For any five-minute period.

COMPARATIVE DATA FOR JULY

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	69.2	97	38	3.45	7.10	1.40	.....	.....	.....
1889.....	71.6	96	39	6.80	15.02	1.04	.....	.....	.....
1890.....	70.7	101	33	3.52	6.40	0.70	.....	.....	.....
1891.....	67.8	97	34	6.32	11.61	2.63	15	11	10
1892.....	73.1	108	38	3.93	8.59	2.15	15	11	5
1893.....	72.1	102	36	3.15	6.27	1.58	15	12	4
1894.....	73.8	103	31	2.32	5.96	0.53	15	11	5
1895.....	69.1	102	34	3.24	6.18	1.16	12	12	7
1896.....	72.8	98	40	6.89	15.59	3.04	10	11	10
1897.....	73.4	103	41	6.26	14.51	2.10	10	11	10
1898.....	74.8	107	33	3.36	6.29	1.15	12	12	7
1899.....	72.3	101	35	3.91	8.24	1.53	12	11	8
1900.....	74.0	104	35	4.86	8.26	1.81	14	12	5
1901.....	76.4	107	45	3.88	7.34	1.32	10	13	8
1902.....	71.8	99	41	6.04	12.35	2.11	10	12	9
1903.....	71.2	98	35	5.36	8.81	1.76	13	12	6
1904.....	70.6	99	34	4.68	9.19	1.92	12	11	8
1905.....	72.6	99	39	4.87	9.78	2.49	10	12	9
1906.....	71.3	95	38	4.31	8.98	1.41	12	13	6
1907.....	71.5	96	34	3.84	9.46	1.01	15	12	4
1908.....	73.9	104	39	4.81	9.57	2.15	14	12	5
1909.....	69.7	98	34	2.14	4.50	0.75	16	11	4
1910.....	72.8	99	41	2.42	5.15	0.45	16	11	4
1911.....	73.7	105	36	2.81	7.41	0.90	16	11	4
1912.....	71.3	100	36	5.29	12.65	1.04	12	11	8
1913.....	71.8	101	40	4.16	8.00	0.82	15	10	6
1914.....	71.3	101	38	4.19	10.29	1.10	12	11	8
1915.....	70.7	98	40	5.28	12.30	1.82	10	13	8
1916.....	74.3	98	41	4.45	12.41	0.39	14	10	7
1917.....	72.1	105	40	4.33	9.76	1.90	12	12	7
1918.....	70.1	99	35	3.05	9.96	0.77	16	10	5
1919.....	72.6	104	34	5.90	14.58	1.70	16	8	7
1920.....	69.5	96	33	4.37	10.70	1.27	15	10	6
1921.....	75.9	104	45	4.13	9.19	1.23	19	9	3
1922.....	71.9	98	38	3.68	7.58	1.45	14	10	7
1923.....	71.0	100	32	4.24	9.86	0.92	15	9	7
1924.....	69.7	97	34	3.42	7.12	0.71	17	10	4

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	2.2	3.6	10	1.6	29	18
Phillipsburg.....	Delaware.....	1.7	3.8	9	0.6	29	22
Mauch Chunk.....	Lehigh.....	3.8	4.7	9	3.6	23	12
Wilkes-Barre.....	Susquehanna.....	3.5	5.2	1	2.5	31	20
Williamsport.....	Susquehanna.....	4.1	10.3	1	1.1	30	20
Harrisburg.....	Susquehanna.....	5.1	8.2	1	3.7	30	17
Freeport.....	Allegheny.....	4.6	14.0	1	1.9	31	22
West Newton.....	Youghiogheny.....	2.1	6.1	14	0.4	30	20
Lock No. 4.....	Monongahela.....	14.1	17.6	15	12.9	30	31
Pittsburgh.....	Ohio.....	8.8	15.6	1	6.8	31	22
Beaver Dam.....	Ohio.....	9.4	19.1	1	6.7	17	30

Climatological Data for July, 1924

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days			Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear			Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	12	73.1	.....	94	30	52	19	34	3.80	-1.25	0.92	0	10	.....	.....	.....	w.	John A. Frick.
Altoona	Blair	1,615	37	67.8	-3.3	88	22†	43	19	35	3.15	-0.12	0.93	0	10	19	11	1	w.	Lewis E. Biller.
Bethlehem	Northampton	295	40	72.8	-1.9	93	30	54	15†	32	2.36	-2.20	.....	0	.....	.....	.....	.....	sw.	R. H. Brennecke, Jr.
Biglerville	Adams	652	2	71.5	.....	93	30	48	19	38	2.38	.....	0.65	0	9	20	7	4	.....	R. C. Walton.
Bustleton	Philadelphia	125	5	72.4	.....	94	30	51	19	36	2.33	.....	0.90	0	4	21	5	5	s.	Experiment Station.
Carlisle	Cumberland	467	57	73.2	-1.6	95	30	50	19	35	2.91	-0.95	1.53	0	8	22	3	6	se.	Prof. C. E. Miller.
Catawissa	Columbia	520	27	71.4	-1.3	94	29†	46	19	39	3.28	-0.49	1.50	0	8	.....	.....	.....	.....	H. H. Yetter.
Center Hall	Center	1,272	28	69.3	-2.1	94	29	50	2	40	2.18	-1.71	0.65	0	7	24	5	2	.....	S. W. Smith.
Chambersburg	Franklin	580	24	71.0	-3.7	94	30	47	19	35	4.18	+0.90	1.61	0	8	18	7	6	sw.	William B. Spear.
Clearfield	Clearfield	1,120	14	66.6*	-4.9	91*	23	41*	20	43*	5.28	+1.28	1.34	0	11	17	10	4	sw.	E. W. Hess.
Coatesville	Chester	380	36	72.4	-2.3	93	30	51	19†	33	2.89	-2.13	1.35	0	6	14	12	5	s.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	14	70.8	.....	92	30	46	19	33	2.15	-1.89	1.03	0	9	18	2	11	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	36	66.1	-4.1	90	29	43	19†	42	4.72	+0.28	1.14	0	8	19	7	5	w.	T. B. Lloyd.
Ephrata	Lancaster	380	23	73.0	-1.0	92	30	50	19	33	2.90	-1.64	0.85	0	7	16	12	3	n.	E. K. Hershey.
Freeland	Luzerne	1,970	9	64.6	.....	90	29	40	18	38	3.18	.....	1.10	0	12	14	11	6	sw.	Theo. Reichmann.
George School	Bucks	190	17	72.0	-1.6	93	30	51	18†	38	3.09	-1.29	1.07	0	9	18	9	4	s.	Prof. N. W. Swayne
Gettysburg	Adams	600	50	73.0	-1.0	97	30	48	19	38	5.27	+1.65	1.40	0	8	13	13	5	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	20	68.5	-1.7	90	29	41	19	37	5.83	+0.59	1.63	0	10	21	5	5	w.	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875	.....	65.8	.....	85	24†	44	20	35	3.46	-2.21	2.10	0	9	.....	.....	.....	w.	Gustav Holtz.
Hamburg	Berks	535	31	70.8	-3.1	92	29	50	18†	36	5.11	+0.40	1.53	0	6	18	11	2	w.	State Sanatorium.
Hanover	York	600	20	73.4	-2.0	95	30	50	19	30	2.86	-1.61	0.87	0	7	20	10	1	w.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	54	73.4	-1.4	93	30	56	19	29	4.52	+0.65	2.37	0	10	11	9	11	w.	U. S. Weather Bureau.
Hawley	Wayne	900	5	68.5	.....	92	29	42	16†	43	2.31	.....	1.76	0	7	16	13	2	nw.	J. S. Pennell.
Huntingdon	Huntingdon	650	36	70.4	-1.8	94	29	44	19	40	7.12	+3.33	2.25	0	7	20	10	1	w.	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Kennett Square	Chester	340	52	73.2	-0.7	94	30	52	19	36	4.31	-0.04	1.77	0	8	19	9	3	nw.	W. P. Mercer.
Lancaster	Lancaster	255	36	72.0	-1.4	94	30	47	19	35	3.73	-0.19	.....	0	.....	26	4	1	s.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	26	68.7	-1.5	94	29	42	19	36	3.00	-1.30	1.10	0	9	17	11	3	.....	C. P. Darling.
Lebanon	Lebanon	469	83	72.6	-1.0	97	30	49	19	34	2.78	-1.49	0.71	0	8	.....	.....	.....	sw.	S. B. Benzing.
Lewisburg	Union	450	49	72.6	+1.1	94	24†	48	19†	39	3.29	-0.68	1.07	0	10	21	7	3	w.	Prof. W. G. Owens.
Lock Haven	Clinton	616	35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles Dunn.
Lykens	Dauphin	680	9	70.2	.....	94	29	41	19	40	4.39	.....	2.01	0	10	21	7	3	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	33	70.8	-1.5	92	24†	47	20†	40	3.95	-1.15	1.01	0	8	20	7	4	w.	R. K. Wintermute.
Millintown	Juniata	445	20	71.8	-0.9	94	29	47	19	36	4.34	+0.23	1.02	0	12	17	8	6	w.	Wellington Smith.
Montrose	Susquehanna	1,720	21	64.7	-3.5	87	29	42	15†	32	4.50	+0.24	2.30	0	11	20	7	4	s.	Silas Jagger.
Mt. Pocono	Monroe	1,658	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	12	67.8	.....	92	29	41	19	40	3.62	-1.35	1.02	0	10	16	13	2	w.	A. H. Boatman.
Narberth	Montgomery	300	5	72.8	.....	92	30	52	19	31	2.28	.....	0.78	0	7	18	6	7	sw.	Charles Decker.
Neshaminy Falls†	Bucks	60	35	71.6	.....	95	30	50	19	36	2.35	.....	0.85	0	5	17	9	5	s.	North Springfield Water Co.
Palmerton	Carbon	398	7	72.8	.....	93	30	49	27	38	4.65	.....	1.66	0	6	22	6	3	sw.	F. G. Breyer.
Philadelphia (a)	Philadelphia	117	53	75.6	-0.6	94	30	60	18	23	3.18	-1.15	1.52	0	6	13	6	12	w.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	8	74.8	.....	94	30	58	19	27	3.95	.....	1.46	0	6	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville	Chester	100	13	73.0	.....	97	30	50	20	34	3.14	.....	1.80	0	5	.....	.....	.....	w.	North Springfield Water Co.
Quakertown	Bucks	496	39	70.6	-1.9	93	30	47	19†	41	2.59	-2.23	0.78	0	7	17	9	5	nw.	John E. Benner.
Reading	Berks	325	54	73.3	-2.2	93	30	55	19	29	1.76	-2.46	0.77	0	8	15	11	5	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	29	69.8	-1.9	91	29	49	15	33	3.65	-0.18	2.69	0	9	9	14	8	sw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	34	71.4	-2.1	92	29	48	19	33	4.05	-0.33	1.50	0	10	21	6	4	w.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	28	74.7	.....	93	30	54	19	30	1.51	-3.08	0.85	0	4	18	10	3	nw.	W. S. Guiles.
State College	Center	1,217	39	67.2	-3.4	88	29	46	19	32	2.93	-0.85	0.98	0	10	17	9	5	w.	C. A. Kern.
Towanda	Bradford	754	29	67.9	-2.7	90	29	47	19†	36	2.79	-1.28	0.62	0	11	17	6	8	sw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	58	65.8	-3.1	89	29	40	19	41	2.67	-1.33	0.86	0	10	22	4	5	w.	George W. Hill.
West Chester	Chester	455	86	.....	.....	92†	30	51†	19	34†	.....	.....	.....	0	.....	.....	.....	.....	.....	Arthur M. Hay.
Williamsport	Lycoming	521	37	71.7	-1.4	94	29	49	19	35	3.02	-0.94	0.96	0	10	23	4	4	nw.	George A. Beck.
York	York	400	36	71.6	-2.8	94	30	46	11	36	2.47	-2.02	0.88	0	11	18	11	2	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam†	Beaver	700	31	70.5	.....	92	29	47	3†	36	2.30	-1.57	0.98	0	11	16	7	8	sw.	U. S. Engineer.
Bradford	McKean	1,427	9	64.2*	.....	89†	14	38†	2	43†	2.98	.....	0.65	0	15	16	10	5	s.	City Engineer.
Bradys Bend†	Armstrong	930	6	65.4	.....	92	29	36	19	45	2.91	.....	1.00	0	10	18	11	2	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	33	64.5*	-3.9	91*	29	37*	2†	47*	3.59	-0.97	1.62	0	7	.....	.....	.....	.....	John Fawcett.
Claysville	Washington	1,150	20	70.6	-2.1	94	29	43	18	39	3.52	-0.80	1.15	0	11	17	11	3	n.	J. L. Melvin.
Corry	Erie	1,430	12	65.2	.....	90	29	40	2	39	2.56	.....	0.73	0	15	13	16	2	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	27	69.8	-3.5	92	21	44	2	38	4.85	+0.02	0.98	0	12	.....	.....	.....	sw.	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	6	63.4	.....	87	29	34	19	45	4.08	.....	1.25	0	11	22	7	2	w.	D. H. Jones.
Elk Lick	Somerset	2,680	7	65.0	.....	87	12	42	19	37	6.25	.....	1.97	0	14	20	8	3	w.	J. S. Stevanus.
Franklin	Venango	957	51	66.3																

Daily Precipitation for July, 1924

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh			.77			T.	.01	.12	.86		.02		.92				.06					.55		.23						.26	3.80		
Altoona	Juniata		.10	.45	.14			.93	.24		.10		.76				.02					.35			T.					T.	.06	3.15		
Ansonia|||	W. Br. Susq.																																	
Bethlehem	Lehigh																																	
Biglerville	Susquehanna	.02		.11			.08	.56	.65				.53				.33							.05							.10	2.86		
Blosserville	Lower Susq.				T.			.25	1.90		.20		.93									T.	.25										2.88	
Bustleton	Lower Del.								.85				.52											.90							T.	2.93		
Carlisle	Lower Susq.	T.	.55					T.	.68	.85		.02		.47									.01	.30								.03	2.91	
Catawissa	N. Br. Susq.																																	
Center Hall	Susquehanna		.22	.65				.37	.39				.37										.11								.07	2.18		
Chambersburg	Potomac		.15	.17				1.61	.41				.66										.34								.82	4.18		
Clearfield	W. Br. Susq.		.17	.06	.62			1.30	.17	.85	.05		1.34										.48		.15					.09		5.28		
Coatesville	Lower Del.							.06	.66				.73											1.35		.07							2.89	
Colebrook	Lower Susq.		.25	.02	T.		.05	.05	.17	T.	T.		1.03	T.									.45	T.	.01					T.	.12	2.15		
Conshohocken	Schuylkill					.01	T.		1.03				.59										1.11		.10						.05		2.91	
Cresson|||	Juniata		.07	.07	.20			.80	.23		T.	.15		.95	T.								.06	T.							.02		3.09	
Doylstown	Lower Del.					.03			1.42	.03				.54	.16									.54				.02						3.76
Emporium	W. Br. Susq.		T.	T.	.64			1.13	.93		.26		.13		.01								.56			T.						.06	4.72	
Ephrata	Lower Susq.		.33					.28	.04				.62										.75		.03						.85	T.	2.90	
Forest City	N. Br. Susq.				.05			T.	.82	.11	.02		.81										.10		.06	.88								2.35
Freeland|||	Lehigh	T.	.22	.24	T.	T.		.04	.20	1.10	T.		.52	T.					.03				.60		.01		.16				.05	3.18		
George School	Lower Del.								1.07	.28			.40	.17									.01	.97		.10						.10	3.09	
Gettysburg	Potomac		.60				.02	.75	1.40				.78											1.36								.30	5.27	
Girardville|||	Susquehanna	T.	.41	.21	.17			.34	1.13		T.		.04	1.47									1.77		.03						.23	.03	5.83	
Gordon	Lower Susq.		.60	.11				.30	.54	.18	T.		1.63										.14	1.50	.03	T.					T.	.80	5.83	
Gouldsboro|||	Lehigh			.20	.15	.02			.18	2.10			.34											.34								.08	3.46	
Graterford	Schuylkill						T.	.08	.31				.54											.74		.35							2.21	
Hamburg	Schuylkill		.52						1.11	1.13			.61										1.53								.21		5.11	
Hanover	Lower Susq.		.87	.05	.08			.23	.25				.61											.77								T.	2.86	
Harrisburg***	do.	.19	2.18				.01	.39	.74		.01		.02	.42									.55									.01	4.52	
Hawley|||	Upper Del.			T.	.03				.17	1.76			.23	.01										.09				.02				T.	2.31	
Holtwood|||	Lower Susq.						.02		.17	1.10			.04	.18										.90		.08							2.59	
Huntingdon	Juniata	T.			2.25	.14		.35	1.93				1.30	.18									.20								.95		7.12	
Jersey Shore	W. Br. Susq.																																	
Kennett Square	Delaware						.02	.02	1.77	.12			.63						.03					1.64		.08								4.31
Lancaster	Lower Susq.																																3.73	
Lansford|||	Lehigh		.09					T.		.83	.86			*	.44									1.13			T.					.09	3.44	
Lawrenceville	N. Br. Susq.	.10		.10	.10				.30	1.10		.20		.50					.50					.10							T.		3.00	
Lebanon	Lower Susq.		.47			.07	T.		.12		.55		.53	.05									.28									.71	2.78	
Lewisburg	W. Br. Susq.			.15	.48			.51	1.07		.03		.28											.08	.38		T.	T.			.07	.24	3.29	
Lloyd	W. Br. Susq.				.18			.27	.40				.90										1.78									T.	3.62	
Lock Haven	W. Br. Susq.																																	
Lykens	Susquehanna	T.	T.	.42				T.	.19	2.01	.03	.03		.81										.10	.24				.02			.54	4.99	
Mauch Chunk	Lehigh		.02						1.01	.58	.78			.42										1.00							.06	.08	3.95	
Mifflintown	Juniata	.12		.02	.15	.02			.85	1.02	.07	.07		.86										.68								.46	.02	4.34
Montrose	N. Br. Susq.		.07	.05	.12	.20			.15	2.30		.12		.77										.40						.26		T.		4.50
Mount Pocono	Upper Del.																																	
Mount Union|||	Juniata				*	.25			.60	*	.30		.13	1.09									*	.20									2.57	
Muncy Valley	W. Br. Susq.			.63	.25				.39	1.02	.09	.10		.54										.15	.31		T.	T.				T.	.14	3.62
Narberth	Lower Del.						T.		T.	.42	.19			.78										.72		.07						.01	T.	2.28
Neshaminy|||	Lower Del.								T.	.27	1.66			.44											.85		.20						T.	2.35
Palmerton	Lehigh		.17						T.	.85		.04		1.52										1.05									T.	4.65
Philadelphia (a)|||	Lower Del.	T.					T.	T.	T.	.85		.94		.33		.30	.85							.48	.23	.06						T.	T.	3.18
Philadelphia (d)|||	do.								T.					.26											1.46								T.	3.95
Phoenixville	Schuylkill						.05		.77				.26												1.80		.26							3.14
Pottstown	do.						T.		.02	.13			.22											.10										0.71
Pottsville	do.		.18																															

Daily Precipitation for July, 1924—Continued from page 27

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Irwin.....	Youghiogheny				.04	.08	.22	.40	.38	T.	.12			.18				.03				.31				.01				.45	.08	2.30	
Johnstown.....	Conemaugh		T.	.02	.09	.35		1.27	.28	.16	.03			.86				T.				.43			.06				.01	.02	.52	4.10	
Ketner.....	Allegheny	.33		.04	.25		.37	.21		.16				.95								.29			.03							2.63	
Linesville|||	Beaver	.13		.07			.56	.95		.71	.23			1.13				.10				.09			.04					T.	.02	4.03	
Lock No. 4|||	Monongahela			T.	.08	.06	1.19	.35	T.	.21	.03			.16	.05			.02					.23		.06							1.25	4.73
Lycippus.....	Conemaugh				.10	1.10	.04	.21	.30		.31			.51		T.						.71		.07						.13	.03	3.97	
Martin.....	Monongahela			.04	.18	.06	.36	.12		.10	.15			1.24	.03			.02				.45	1.12		.05		.02					2.80	
New Castle|||	Beaver	.12			.14		1.02	.62	.27		.33			.38				.02				.08	.15									2.52	
Newell.....	Monongahela				.11	.06	.28	.30	.45	.16	.23			.24	.15			.03				.31			.05							1.15	3.10
Parkers Landing|||	Allegheny	.05			.22		.37	.08		.31				.58				T.				.04	.44			T.						2.09	
Pennline|||	Beaver		.19	.20		1.40		1.02	.07	.31	.27			.59				.17				.01	.12		.06					.03	.15	4.44	
Pittsburgh***	Ohio			.48		.05	1.13	.23	T.	.27			.24	.14				.03				.31			.01					.06	.15	3.10	
Ridgway†	Allegheny			.07	.29		.34	.26	.09	.33				.37				.06				.11										1.19	3.06
Saltsburg|||	Conemaugh			T.	.29	.04	.19	.78	.01	.05	.25			.37								.06	.12		.02					1.02	.03	3.23	
Saegerstown.....	Allegheny	.10		.40	.12		.25			.23				1.00				.07				.20			.12					.05	.02	2.66	
Sharon|||	Beaver	.04			.18		.68	.04	.08	.22				.30								.27	.14									1.95	
Somerset.....	Youghiogheny			.07	.28		1.10	.18	.20	.25	1.65			.30								.55		.05		.02						.35	5.02
Springdale|||	Allegheny				.51	.03	1.05	.18		.15	.02			.39	.15								.08		.04							.44	2.64
Tionesta.....	Allegheny																																
Uniontown.....	Monongahela			T.	.11	.20	.03	.34	.30	.41			1.07					.04				.74			.04	.05					T.	.03	3.36
Unity Reservoir|||	Youghiogheny			.10	.15	.05	.21	.29		.29			.43									.27			.08					.20	.26	1.68	4.01
Vandergrift.....	Conemaugh																					.16											
Warren.....	Allegheny	.11		.08			.30			.15	.30	.30						.04				.16			.12					.10	.44	2.10	
Washington.....	Ohio			.18		.03	.04	.51	.24		.24			.25	.17			.08				.26			.03					.23	.33	2.59	
Waynesburg|||	Monongahela				.35	.65	.24	.02	.22		.45			.22		.06						.15		.56						.15	1.15	4.22	
Westford|||	Beaver		.13	.09		.97	2.32		.05	.29			1.18								T.		.67	.18								5.88	
West Newton|||	Youghiogheny			T.	.20	.12	.50	.44	.03	.26	.02			.14	.11			.05				.11	.39		.07						.06	2.50	
Lake Drainage.																																	
Erie***	Lake Erie				.48		.01	.44	.27		.28		.26				.16	.35			T.		.05		.32	.10					.11	.55	3.38
West Bingham.....	Genesee			.35	T.	.35		.31	.23		.05		.21				.05					.05		T.		T.				.03	T.	T.	1.63

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T (trace) when precipitation is less than .01 inch. ‡ Incomplete or missing. †† Post Office address:—Greensburg, † Daily amounts inconsistent.

Daily Temperatures for July, 1924

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean			
Allentown.....	Maximum ..	74	76	81	82	73	84	89	87	87	86	86	89	87	79	81	81	87	85	81	85	88	84	88	92	88	82	84	88	92	94	86	84.7		
	Minimum ..	60	61	57	61	61	63	68	71	70	71	61	59	66	61	54	59	55	57	52	54	60	62	68	65	71	56	54	55	58	65	70	61.5		
Altoona.....	Maximum ..	72	72	74	68	75	78	79	75	84	78	81	84	80	74	76	82	74	71	76	81	86	88	83	88	75	75	80	85	88	78	79.0	79.0		
	Minimum ..	48	49	53	55	60	60	65	63	60	60	54	54	65	52	48	56	62	52	43	53	56	62	63	59	63	49	47	50	60	65	66	56.5		
Catawissa.....	Maximum ..	79	80	82	76	85	84	87	81	79	81	87	89	86	81	83	88	81	79	83	87	87	84	91	93	84	84	83	89	94	94	83	84.6		
	Minimum ..	56	57	60	56	57	61	67	68	65	67	54	55	62	55	50	55	62	50	46	50	56	69	66	58	64	52	51	50	58	62	64	58.1		
Chambersburg.....	Maximum ..	76	74	77	76	79	80	83	78	85	84	87	85	80	80	85	78	76	79	85	86	88	88	89	88	90	88	80	84	87	91	94	86	83.0	
	Minimum ..	56	57	56	63	57	63	68	68	64	63	55	57	67	57	53	58	60	51	47	54	59	65	67	58	68	54	50	52	57	60	65	59.0		
Claysville.....	Maximum ..	77	77	80	79	83	85	84	84	89	83	88	90	84	79	83	86	77	79	89	91	91	90	90	86	83	85	92	94	89	78	84.6	84.6		
	Minimum ..	52	44	55	54	56	62	64	63	55	63	51	55	66	53	51	55	62	43	46	52	54	68	62	56	64	53	47	53	57	65	69	56.5		
Clearfield.....	Maximum ..	67	69	74	71	76	80	79	80	89	78	85	84	86	77	76	87	76	68	70	84	82	82	91	85	77	76	85	86	87	75	79.4	79.4		
	Minimum ..	50	45	52	57	57	62	66	66	59	57	55	60	64	50	45	52	62	42	43	41	56	62	58	56	63	47	45	43	54	47	53.9	53.9		
Coatesville.....	Maximum ..	74	78	79	80	74	82	88	87	86	84	87	85	78	80	86	82	75	78	83	85	84	86	89	83	79	81	85	89	93	85	83.0	83.0		
	Minimum ..	60	62	57	61	61	65	69	71	69	70	60	58	70	59	54	59	67	55	51	51	63	68	70	64	71	57	54	52	56	67	69	61.9	61.9	
Emporium.....	Maximum ..	73	73	75	67	78	80	80	74	82	78	80	85	81	72	75	82	70	68	75	79	85	84	83	85	74	76	83	87	90	83	78	78.5	78.5	
	Minimum ..	54	44	50	54	58	60	63	62	60	56	50	51	63	50	45	51	59	45	43	48	55	62	60	54	55	47	43	45	57	58	63	53.7	53.7	
Erie.....	Maximum ..	67	68	71	71	74	76	75	81	86	79	78	87	76	71	74	80	68	66	72	76	90	88	83	88	72	71	82	85	86	77	69	77.0	77.0	
	Minimum ..	54	51	55	57	59	64	66	64	64	63	60	63	63	58	57	63	59	56	54	58	64	71	66	66	61	56	56	68	72	68	61	61.2	61.2	
Greensburg.....	Maximum ..	75	74	78	77	81	87	80	82	85	80	84	89	82	77	79	75	79	73	77	86	90	89	86	89	84	76	83	89	90	78	82	82.4	82.4	
	Minimum ..	50	46	50	57	59	62	65	63	58	62	54	55	65	54	52	57	62	48	46	53	55	60	63	59	63	51	47	56	59	63	63	56.7	56.7	
Grove City.....	Maximum ..	71	72	73	72	78	80	80	78	82	80	82	85	80	76	82	79	69	73	81	88	83	87	83	75	80	85	90	85	80	85	80	79.8	79.8	
	Minimum ..	51	47	44	52	59	63	65	63	60	58	53	60	55	57	48	53	59	49	43	54	55	68	57	59	61	46	59	57						
Harrisburg.....	Maximum ..	75	73	77	78	76	77	84	81	86	82	87	86	87	86	87	78	82	86	77	76	70	83	84	85	90	81	80	82	84	92	93	83	82.4	82.4
	Minimum ..	59	61	60	63	62	65	70	70	69	70	63	68	69	65	60	62	64	58	56	56	66	71	73	67	69	64	53	58	63	70	69	64.3	64.3	
Indiana.....	Maximum ..	70	75	77	78	81	84	87	79	83	84	80	86	82	77	79	82	82	78	79	85	89	87	86	85	78	82	87	90	85	75	81	75.7	75.7	
	Minimum ..	41	43	46	50	61	62	60	63	56	60	51	56	65	52	49	53	61	48	42	44	55	64	60	55	64	45	46	53	58	58	62	54.3	54.3	
Johnstown.....	Maximum ..	84	78	79	76	82	83	82	82	87	82	88	92	82	85	82	89	76	74	82	91	95	94	90	92	78	79	88	94	96	92	76	84.8	84.8	
	Minimum ..	54	51	52	59	62	63	66	66	61	60	55	55	62	55	54	56	61	55	47	54	56	66	65	68	69	49	53	59	59	56	57.9	57.9		
Lancaster.....	Maximum ..	82	79	81	83	83	81	82	83	87	88	90	87	89	89	88	89	89	83	82	83	85	84	91	93	92	86	83	84	88	84	89	85.9	85.9	
	Minimum ..	57	51	56	52	51	61	62	68	65	67	57	55	67	55	52	56	60	51	47	49	58	64	68	59	70	51	53	52	55	63	71	58.2	58.2	
Mifflintown.....	Maximum ..	77	75	79	74	80	81	83	82	87	86	87	86	88	86	81	82	88	83	80	81	85	88	86	90	92	80	80	85	85	94	92	85	84.3	84.3
	Minimum ..	56	55	58	61	59	63	67	67	66	62	59	59	59	56	52	53	55	56	47	52	59	66	70	60	65	55	50	52	58	63	69	59.3	59.3	
Philadelphia.....	Maximum ..	72	77	79	79	73	82	88	87	86	85	87	88	87	88	87	85	78	80	83	86	85	90	91	85	83	82	85	88	94	87	84	87.0	87.0	
	Minimum ..	64	63	61	63	62	63	67	70	70	73	70	68	64	69	66	60	60	60	60	66	67	70	72	74	70	66	64	66	65	73	74	67.1	67.1	
Pittsburgh.....	Maximum ..	71	73	75	80	84	84	79	81	85	80	83	86	81	76	79	84	71	70	75	85	88	87	85	88	76	75	82	87	89	88	78	80.8	80.8	
	Minimum ..	59	52	53	59	61	67	66	66	63	61	60	64	63	60	59	63	58	54	53	59	62	69	66	66	63	60	54	63	66	68	65	61.4	61.4	
Reading.....	Maximum ..	74	75	78	80	75	82	88	86	86	83	85	88	86	78	80	87	80	76	79	84	86	84	88	90	84	78	82	86	90	93	84	82.9	82.9	
	Minimum ..	62	60	59	63	63	65	69	70	68	69	63	60	68	63	68	63	63	57	55	57	65	71	70	68	67	60	57	57	61	71	72	63.7	63.7	
Scranton.....	Maximum ..	75	76	79	72	84	86	84	77	85	79	82	87	85	78	83	74	72	78	82	85	79	86	88	76	76	80	85	91	88	81	80	80.8	80.8	
	Minimum ..	56	57	60	60	57	62	68	69	67	64	60	56	65	55	49	54	58	55	50	51	56	69	68	61	58	51	50	52	60	63	63	58.8	58.8	
Selinsgrove.....	Maximum ..	76	87	80	75	81	86	88	80	86	83	86	88	86	80	84	81	77	80	84	85	86	89	89	84	77	86	87	92	90	84	83.8	83.8		
	Minimum ..	56	56	58	61	57	62	67	66	69	55	56	57	56	52	55	63	52	48	52	58	68	66	58	69	50	55	54	59	62	67	58.9	58.9		
Somerset.....	Maximum ..	74	74	75	72	78	78	81	75	85	77	75	78	85	75	78	83	80	75	84	88	87	82	87	69	71	81	85	91	92	75	79.8	79.8		
	Minimum ..	51	52	45	58	57	70	52	64	58	60	53	58	61	54	51	68	61	58	46	44	54	64	63	52	61	45	45	53	55	60	62	56.0	56.0	
State College.....	Maximum ..	67	76	73	70	78	79	76	75	78	82	84	78	74	76	76	74	66	76	75	84	84	83	87	73	75	80	84	88	80	79	77.7	77.7		
	Minimum ..	49	50	54	56	57	59	63	62	59	63	56	54	62	54	62	54	63	51	46	49	58	67	63	60	66	50	48	58	59	60	56.8	56.8		
Towanda.....	Maximum ..	74	73	73	68	80	84	77	84	79	80	85	83	71	76	84	74	70	75	78	87	82	84	88	75	77	77	84	90	85	75	79.2	79.2		
	Minimum ..	55	49	57	59	59	60	66	65	63	55	63	55	65	48	51	58	52	47	47	53	68	63	52	65	47	49	50	58	59	60	56.6	56.6		
Uniontown.....	Maximum ..	76	75	78	78	83	84	79	79	85	80	83	88	83	74	80	83	75	75	78	85	88	89	85	87	81	74	32	88	89					

33.00
UNP

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

THE LIBRARY OF THE

SEP 25 1924

CLIMATOLOGICAL DATA.

UNIVERSITY OF ILLINOIS

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXIX.

AUGUST, 1924.

No. 8

GENERAL SUMMARY.

Warm periods occurred from the 5th to 11th and the 25th to 31st, but the remainder of the month was so cool that the mean temperature corresponded to the August normal. The rainfall was below the normal in practically all parts of the State. A few stations reported an excess due to heavy local showers. The conditions as a whole were favorable for all kinds of outdoor work, and also favorable for crops except that there was nothing to accelerate the growth of belated crops and at the end of the month nearly all vegetation was still from three to four weeks late. The greater portion of the corn crop was not much farther advanced than is usual at the end of July, while oats harvest was still in progress. As a rule the various grasses and clover crops were not so late as the cultivated crops, and the second cutting of hay was about finished during the month. The hay crop was a large one and was mostly cured under favorable conditions so the quality was above the average. The threshing of early oats was in progress during the whole month, and good yields were generally reported. The oats crop appeared to be above the average in both yield and quality. Wheat threshing continued with mostly fair yields and fair to good quality. The crop as a whole appeared to be a little below the average. The digging of early potatoes continued all the month to meet market demands, and yields and quality seemed to be better than usual. There was little or no blight in the early crop, but it developed in the late fields during the month and in some sections it was bad enough to cut down the yields materially. The peach crop was very promising and early peaches were on the market during the last half of the month. Apples fell from the trees more than usual. Early cooking apples suffered least. The prospect for winter apples was very poor at the end of the month.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 77 stations, was 70.1° which is normal. The highest mean was 75.0° at Philadelphia, and the lowest was 62.2° at Bradford. The highest temperature recorded during the month was 102° at Phoenixville on the 6th and 7th, and the lowest was 31° at West Bingham on the 2d. The greatest daily temperature range was 46° at Bradys Bend on the 4th.

PRECIPITATION.

The average rainfall for the State, as shown by the records from 120 stations, was 3.78 inches, or 0.79 inch less than the August normal. The greatest monthly amount at any station was 7.54 inches at Narberth, and the least was 1.48 inches at Beaver Dam. The greatest amount recorded in any 24 consecutive hours was 3.76 inches at Shawmont on the 25th and 26th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total move- ment, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	•Highest	Direction	Date
Erie.....	276.7	428.7	65	70	69	8,257	11.1	44	sw.	6
Harrisburg.....	291.1	425.1	68	74	61	4,137	5.6	27	ne.	12
Philadelphia.....	279.5	425.1	66	74	66	6,065	8.2	32	ne.	26
Pittsburgh.....	335.8	428.9	79	81	64	6,346	8.5	45	nw.	5
Reading.....	310.0	425.0	72	77	67	3,057	4.1	21	n.	12
Scranton.....				87	70	4,527	6.1	27	sw.	27

* For any five-minute period.

COMPARATIVE DATA FOR AUGUST

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	69.8	100	33	7.05	11.27	3.18			
1889.....	67.4	100	37	3.24	7.07	0.88			
1890.....	68.8	98	34	5.76	9.65	2.58	9	14	8
1891.....	69.6	99	35	5.09	11.77	1.43	8	12	11
1892.....	71.4	99	42	3.77	7.64	1.07	14	7	10
1893.....	70.4	99	30	4.50	9.99	1.68	14	10	7
1894.....	69.4	98	32	1.84	5.51	0.17	13	12	6
1895.....	72.3	101	32	3.23	6.03	0.59	15	11	5
1896.....	71.2	101	35	2.22	6.53	0.45	14	11	6
1897.....	67.9	97	34	3.17	8.60	0.34	14	11	6
1898.....	72.3	99	37	6.60	11.32	3.72	11	11	9
1899.....	71.2	101	38	4.01	10.09	0.07	14	10	7
1900.....	75.0	103	38	3.33	5.78	0.84	14	12	5
1901.....	72.0	99	42	6.81	13.65	2.48	10	12	9
1902.....	67.8	100	34	2.62	6.44	0.51	13	13	5
1903.....	67.2	99	36	5.29	8.05	2.00	9	12	10
1904.....	68.0	96	34	4.36	9.64	1.66	15	10	6
1905.....	69.6	95	36	5.71	10.83	1.92	12	12	7
1906.....	73.2	96	39	5.62	11.65	1.62	10	12	9
1907.....	68.0	97	32	2.94	6.19	0.77	16	9	9
1908.....	69.4	102	30	3.22	8.06	1.22	15	10	6
1909.....	69.4	100	34	2.31	7.76	0.12	16	9	6
1910.....	69.8	98	35	2.61	6.46	0.55	14	10	7
1911.....	71.4	102	36	7.63	15.14	2.60	11	8	12
1912.....	67.1	93	36	5.02	9.65	1.68	9	12	10
1913.....	70.4	102	38	2.69	10.93	0.70	17	9	5
1914.....	71.3	100	34	3.85	7.20	0.64	13	11	7
1915.....	68.0	99	34	6.71	14.44	1.92	10	11	10
1916.....	71.9	103	32	2.57	7.08	0.21	17	10	4
1917.....	71.2	101	38	6.69	17.50	1.06	15	10	6
1918.....	73.6	106	32	4.12	8.02	1.05	16	10	5
1919.....	68.2	94	35	5.43	12.03	2.35	13	10	8
1920.....	70.2	95	37	4.66	9.29	1.93	9	12	10
1921.....	68.4	97	35	3.83	6.68	1.81	17	8	6
1922.....	69.1	100	31	3.14	8.16	1.15	15	9	7
1923.....	69.2	96	30	3.10	7.30	0.59	15	11	5
1924.....	70.1	102	31	3.78	7.54	1.48	16	10	5

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	1.8	2.8	13	1.5	2	18
Phillipsburg.....	Delaware.....	0.5	1.1	14	0.3	26	22
Mauch Chunk.....	Lehigh.....	3.5	4.0	12	3.5	3	12
Wilkes-Barre.....	Susquehanna.....	2.7	5.1	27	2.3	2	20
Williamsport.....	Susquehanna.....	1.1	4.5	27	0.5	17	20
Harrisburg.....	Susquehanna.....	3.7	4.4	29	3.4	10	17
Freeport.....	Allegheny.....	1.9	6.1	23	1.1	14	22
West Newton.....	Youghiogheny.....	0.4	1.8	13	0.1	11	20
Lock No. 4.....	Monongahela.....	13.6	16.4	27	12.5	21	31
Pittsburgh.....	Ohio.....	7.5	9.2	24	6.8	21	22
Beaver Dam.....	Ohio.....	8.2	10.4	24	7.1	23	30

Climatological Data for August, 1924

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	12	72.2		100	6	49	19	36	3.73	-0.62	1.25	0	9	14	14	3	sw.	John A. Frick.
Altoona	Blair	1,615	37	68.1	-1.5	92	31	43	19	33	4.22	+0.83	0.78	0	8	19	8	4	w.	Lewis E. Biller.
Bethlehem	Northampton	295	40	73.2	-0.5	99	6	49	19	38				0					sw.	R. H. Brennecke, Jr.
Biglerville	Adams	652	2			99 ^a	31				2.20		1.00	0						R. C. Walton.
Bustleton	Philadelphia	125	5	72.8		98	6	48	19	34	5.17		2.10	0	8	18	4	9	sw.	Experiment Station.
Carlisle	Cumberland	467	57	73.2	+0.5	100	6	47	19	38	3.53	-1.43	2.20	0	5	21	5	5	se.	Prof. C. E. Miller.
Catawissa	Columbia	520	27	71.0	+0.7	98	6	44	19	40	3.63	-0.49	2.30	0	7	27	3	1		H. H. Yetter.
Center Hall	Center	1,272	28											0						S. W. Smith.
Chambersburg	Franklin	580	24	71.6	-0.6	97	6 [†]	45	19	37	3.77	-0.47	2.36	0	8	12	14	5	sw.	William B. Spear.
Clearfield	Clearfield	1,120	14	66.2	-3.7	97	31	44	3 [†]	43	3.89	-1.25	1.10	0	11	17	9	5	nw.	E. W. Hess.
Coatesville	Chester	380	36	71.8	+2.1	97	6	48	19	35	3.18	-1.25	1.93	0	9	14	14	3	w.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	14	70.6		98	6	46	19	34	3.57	-2.01	1.70	0	8	19	5	7	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	36	66.4	-1.5	90	31	41	2 [†]	39	1.49	-2.58	0.30	0	10	17	10	4	w.	T. B. Lloyd.
Ephrata	Lancaster	380	23	72.2	+0.4	96	6	48	19	33	3.74	-1.16	2.12	0	9	21	5	5	s.	E. K. Hershey.
Everett	Bedford	26												0						B. Frank Chamberlain.
Freeland	Luzerne	1,970	9	63.2		90	6	38	2	33	4.09		2.04	0	14	11	14	6	sw.	Theo. Reichmann.
George School	Bucks	190	17	72.4	+1.0	98	6	46	19	36	4.90	+0.30	3.02	0	8	23	3	5	sw.	Prof. N. W. Swayne
Gettysburg	Adams	600	50	72.8	+1.1	100	6 [†]	45	19	40	2.22	-1.85	0.93	0	8	12	15	4	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	20	67.8	-0.4	93	6	40	19	40	1.72	-3.05	0.73	0	8	20	5	6	w.	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875		65.0		90	6	39	19	34	3.88	-1.30	1.80	0	11	16	9	6	w.	Gustav Holtz.
Hamburg	Berks	535	31	69.0	-2.7	97	6	44	19	33	3.53	-1.83	2.45	0	5	15	12	4	w.	State Sanatorium.
Hanover	York	600	20	73.0	-0.6	98	6	48	19	32	1.99	-2.79	1.16	0	8	22	6	3	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	54	73.0	+0.4	97	6	52	19	30	3.66	-0.59	2.36	0	5	11	15	5	sw.	U. S. Weather Bureau.
Hawley	Wayne	900	5	68.4		96	6	38	19	42	3.73		1.39	0	12	17	11	3	w.	J. S. Pennell.
Huntingdon	Huntingdon	650	36	70.5 ^a	-0.2	98	31	42 ^a	19	44 ^a	3.18	-0.91	1.24	0	8	19	9	3	w.	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	4											0						C. B. McCullough.
Kennett Square	Chester	340	52	73.4	+1.5	99	6	47	19	36	6.40	+1.39	1.92	0	9	21	8	2	s.	W. P. Mercer.
Lancaster	Lancaster	255	36	72.4	-0.3	100	6	45	19	41	3.98	-0.05	2.77	0	6	25	2	4	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	26	68.1	0.0	95	31	40	2 [†]	41	3.37	-0.43	0.60	0	11	15	14	2		C. P. Darling.
Lebanon	Lebanon	469	83	72.1	+0.1	100	6	47	19	36	3.82	-0.79	2.22	0	8	14	13	4	sw.	S. B. Benzing.
Lewisburg	Union	450	49	72.5	+3.6	99	6	45	19	39	3.52	-1.15	2.05	0	9	14	10	7	w.	Prof. W. G. Owens.
Lock Haven	Clinton	580	35											0						Charles Dunn.
Lykens	Dauphin	680	9	70.6		100	6	41	15 [†]	41	5.14		2.98	0	6	23	7	1	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	33	70.2	-0.1	97	6	43	19	40	3.68	-1.29	2.29	0	7	16	11	4	w.	R. K. Wintermute.
Mifflintown	Juniata	445	20	70.9	+0.3	97	6	43	19	39	5.78	+1.26	2.15	0	9	20	6	5	w.	Wellington Smith.
Montrose	Susquehanna	1,720	21	65.2	-1.7	89	31	41	19	33	3.36	-0.85	1.03	0	9	21	5	5	s.	Silas Jagger.
Mt. Pocono	Monroe	1,658	21	63.8	-0.4	92	6	38	2 [†]	33	3.67	-0.67	2.05	0	6	16	11	4	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	12	67.5		93	6	42	2	37	3.46	-1.78	1.60	0	10	10	18	3	sw.	A. H. Boatman.
Narberth	Montgomery	300	5	72.4		95	6 [†]	49	19	29	7.54		2.07	0	13	14	9	8	sw.	Charles Decker.
Neshaminy Falls	Bucks	60	35	71.9		99	6	47	19	36	4.88		2.70	0	7	18	8	5	s.	North Springfield Water Co.
Palmerton	Carbon	398	7	69.7		99	31	41	19	42	3.61		2.22	0	8	17	9	5	sw.	F. G. Breyer.
Philadelphia (a)	Philadelphia	117	53	75.0	+0.2	96	6	59	15	24	3.77	-0.84	2.36	0	9	9	11	11	sw.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	8	74.9		98	6	56	19	26	4.75		2.80	0	7					Commandant, Navy Yard.
Phoenixville	Chester	100	13	73.6		102	6 [†]	47	19	35	5.47		2.26	0	7					North Springfield Water Co.
Quakertown	Bucks	496	39	70.2	+3.0	99	6	42	19	40	3.38	-0.91	2.36	0	7	16	11	4	nw.	John E. Benner.
Reading	Berks	325	54	73.6	+1.2	97	6	53	19	28	4.71	+0.23	2.81	0	9	16	10	5	sw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	29	69.3	-0.5	93	6	44	19	32	3.53	-0.72	1.31	0	12	9	17	5	n.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	34	71.1	-0.4	96	6	45	19	34	4.66	+0.26	2.40	0	9	18	8	5	w.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	28	74.3		96	7	51	19	27	6.88	+1.75	3.76	0	7	19	8	4	nw.	W. S. Guiles.
State College	Center	1,217	39	67.4	-1.3	92	6	43	19	33	3.99	+0.21	0.91	0	9	14	12	5	sw.	C. A. Kern.
Towanda	Bradford	754	29	67.8	-0.7	93	31	42	2	36	3.36	-0.34	0.82	0	13	13	11	7	s.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	58			91 ^g	6	38 ^g	2	44 ^g	2.08	-1.63	1.16	0	6					George W. Hill.
West Chester	Chester	455	86	71.6	-0.4	96	6	50	19	27	5.96	+1.28	2.91	0	11	17	9	5	sw.	Arthur M. Hay.
Williamsport	Lycoming	521	37	71.9	+1.2	98	6	47	2	37	3.42	-1.19	0.97	0	11	18	8	5	nw.	George A. Beck.
York	York	400	36	71.9	-0.7	100	31	45	19	40	1.93	-2.36	0.85	0	7	20	7	4	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	31	72.2		96	31	46	19	35	1.48	-2.30	0.38	0	11	21	1	9		U. S. Engineer.
Bradford	McKean	1,427	9	62.2 ^b		90 ^b	31	37 ^b	2	43 ^b	3.17		0.98	0	8	16	11	4	sw.	City Engineer.
Bradys Bend	Armstrong	930	6	66.7		94	31	35	19	46	2.65		0.71	0	12	21	6	4		Edward R. Dewey.
Brookville	Jefferson	1,173	33	65.2	-1.3	92	6 [†]	35	19	43	3.54	-0.59		0		23	4	4		John Fawcett.
Claysville	Washington	1,150	20	71.8	+0.3	96	31	41	18	42	3.21	-1.12	0.90	0	8	20	6	5	nw.	J. L. Melvin.
Corry	Erie	1,430	12	66.0		92	31	38	15	42	3.88		1.11	0	10	13	13	5		Nevin R. Dickson.
Derry	Westmoreland	1,172	27	71.8	+0.5	96	31	42	19	41	3.56	-0.61	1.38	0	9				sw.	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	6	65.6		89	31	35	15 [†]	43	4.09		1.16	0	10	18	8	5	e.	D. H. Jones.
Elk Lick	Somerset	2,680	7	66.7		88	6 [†]	38	19	37	4.96		1.60	0	8				w.	J. S. Stevanus.
Franklin	Venango	957	51	68.0	-0.3	93	5 [†]	40	19	39	4.20	+0.40	1.51	0	11				ne.	Robert A. Fergus.
Greensburg	Westmoreland	1,150																		

Daily Precipitation for August, 1924

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh.					T		.51				1.25	1.00	.14			.02	.30		.15	.03					.33							3.73
Altoona	Juniata	.62				.78	.16					T	.66				.47			.58			.47			.48							4.22
Ansonia|||	W. Br. Susq.	.03				.17	.02	.10	.04		.04		.32		.06		.17			.08	.12		.06			1.68	1.66		.71				5.26
Bethlehem	Lehigh.																																
Biglerville	Susquehanna			.08		.49							1.00		.09		*									.04							2.20
Bloersville	Lower Susq.							.05		.92			3.51		2.44		.25			.61													6.81
Bustleton	Lower Del.												2.10	.23			.15			.06			T			.78	.89						5.17
Carlisle	Lower Susq.			T		T	T	.11					2.20	.52			.18			.52			T										3.53
Catawissa	N. Br. Susq.					T	T	.22				.05	2.25	.13			.74						T	.12		T							3.63
Center Hall	Susquehanna																																
Chambersburg	Potomac				.04	.17							2.36		.21		.34			.43	.08		.14										3.77
Clearfield	W. Br. Susq.				1.10		.12		.22			T	.50	.04		.05	.59		.20	.15			.28	T	.64	T							3.89
Coatesville	Lower Del.					.04	.05		.28		.11	1.93					.04			.21					.35	.17							3.18
Colebrook	Lower Susq.			T		.05	.10						1.70	.61			.37			.63			T	T	.10	.01							3.57
Conshohocken	Schuylkill			T			.06		.73				2.27				.07			.11			T		2.40	*	.15						5.64
Cresson|||	Juniata				*	.57		.10					.75	.02			.58			.52	.28	*	.56			*	.15						3.53
Doylestown	Lower Del.	.28					.01						3.42				.25			.09						.61	.57						5.23
Emporium	W. Br. Susq.				.25		.03					T	.11	.08		.14	.25			.30			T	.10		T		.05	.18				1.49
Ephrata	Lower Susq.			T		.11	.51		.06				2.12	.02			.04			.45					.03								3.74
Everett	Juniata																																
Forest City	N. Br. Susq.					.13	.71			.25		1.03		.04			.35			.24					1.05	1.27		.53					5.60
Freeland|||	Lehigh.				.02	.41		.06				2.04	.22	.34			.20	.34		.16	.01		.04	.03	.02	.20							4.09
George School	Lower Del.	.03					.01	T	.06			3.02	T				.02		.05						.53	1.18							4.90
Gettysburg	Potomac			.30	.34	.04						.93		.26			.06			.20					.09								2.22
Girardville|||	Susquehanna					.24					T	1.93	1.33	.05		.64		.21					.15	.02	.02								4.62
Gordon	Lower Susq.					.21		.10			T		.21	.73			.36			.36				.04	.02	.02		.05					1.72
Gouldsboro|||	Lehigh.	.39					.40						1.80	.22	.08		.31		.14	.20	.18		.06			.10							3.88
Graterford	Schuylkill											1.16					.19			.14				.43									1.92
Hamburg	Schuylkill					.13						2.45	.32				.31			.31													3.53
Hanover	Lower Susq.			.15				.04	.08			1.16		.15			.02			.22				.17									1.99
Harrisburg**	do.			T			T					2.22	1.14	.77			.08			.45			T		T								3.66
Hawley|||	Upper Del.	.12						T				1.39	.32	.80	T		*		.33		.09	*	.03	.16		.27	.23		.40		.09		3.73
Holtwood|||	Lower Susq.					.08			.13			1.19		.15						.22					.27	.23							2.27
Huntingdon	Juniata	T			.07	.18	.08					1.24	T			T	.43			.83				.11	.24								3.18
Jersey Shore	W. Br. Susq.																																
Kennett Square	Delaware	.22					.62			.79	.55	1.63		.20			.21			.14						1.92	.32						6.40
Lancaster	Lower Susq.						.14					2.77		.13			.35			.35				.39									3.98
Lansford|||	Lehigh.							.15				1.87	.13	.60			.52	.79	*	.15	T				T	.12							3.81
Lawrenceville	N. Br. Susq.			.60	.20	.10		.55				.30	.12	.60		.08	.52			.48	.02			.18	.37			.35					3.37
Lebanon	Lower Susq.					.01						2.22	.18			.01	.83			.48	.02			T	.07								3.82
Lewisburg	W. Br. Susq.			.02	.01	.16					T	2.05	T			T	.69			.15				.16	.25	.03							3.52
Lloyd	W. Br. Susq.																																
Lock Haven	W. Br. Susq.																																
Lykens	Susquehanna	.20			T		.01					2.98	.69				.53			.73								T					5.14
Mauch Chunk	Lehigh.			.06		.07						2.29	.45				.40			.20													3.68
Mifflintown	Juniata			.10	.03	.03						2.15	.30	.02	.57		.18			1.18			1.32	.21			.11						5.78
Montrose	N. Br. Susq.			.06	.06	.10						.90	.05				.83			.12				.21				1.03					3.36
Mount Pocono	Upper Del.			T		.20						2.05	.02				.44			.60				.36									3.67
Mount Union|||	Juniata			*	.25	T						1.59	.60			T	.52			.63			.06	T	.35								4.00
Muncy Valley	W. Br. Susq.			.13	.07	.18	.10	.15	.01	2.06	T	1.60	.08			T	.49			.11	.07			.05	.68								3.46
Narberth	Lower Del.	.06			T		.57	.11	.18	.10	.15	.01	2.06	T			.10			.25		T	.05	T	.02	.07	.20	.03					7.54
Neshaminy|||	Lower Del.											1.45	1.25				.25			T	.05			.02	.07	.20	.03						4.88
Palmerston	Lehigh				T		.16					2.22	.27	.02			.67			.13				.10	.04								3.61
Philadelphia (a)	Lower Del.	.21			T		.07		.03	.07		.97					.03			.13				.10	.04								3.77
Philadelphia (d)|||	do.	.16								.12	.28	1.12	.15				.12			T				.28	.20								4.75
Phoenixville	Schuylkill	T							T	1.14	T	2.26																					

Daily Precipitation for August, 1924—Continued from page 31

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Irwin.....	Youghiogheny				.03		.07					.31		.39		.11			.62		.69		.02										2.24
Johnstown.....	Conemaugh.....	.06			.19		.11					.01	.82	.10		.18	.14		1.02		.06		.40		.25								3.34
Ketner.....	Allegheny.....				.30	.18	.42		.09						.05		.11	.26		.38		.76		.32									2.87
Linesville|||	Beaver.....				.60		.52	.01	T.	.01					.11			.32		.29		1.97											3.83
Lock No. 4|||	Monongahela.....						.38		.04			.29		.06		.10				.20		.35		.02	.16				T.				1.60
Lycippus.....	Conemaugh.....				.04		.06		.03			.43		.21		.57			.58		2.12		.04	.08	.12								4.28
Martin.....	Monongahela.....	.36				.07		.42		.18		.70		.02		.30			.05	.18		.49		1.50	.54								4.81
New Castle|||	Beaver.....			.72	.33		.24	.46			.06		.14		.03		.27	.08	.53	.04		.18					.73		.16		.10		3.31
Newell.....	Monongahela.....				.06		.08				.14	.18	.03			.27	.08		.23		.18		.73					.19					2.17
Parkers Landing|||	Allegheny.....				.26	.42	T.	*		.06		.05		.06		.53		*	.43	.24		1.37		T.									3.42
Pennline|||	Beaver.....				.83			*.53	.05		T.		.05	.13	.04		.25		.23		.11	T.		2.47									4.47
Pittsburgh**	Ohio.....		T.		.45		.23	T.				.05	.13	.04		.04	.39		T.	.43		.41	.24	T.	1.01		.04						3.46
Ridgway||	Allegheny.....					.09				.29			.28		.13			.48	.02		.92	.02		1.70		2.12	.06						7.51
Saltsburg|||	Conemaugh.....	.71			.69	.09				.03					.13			.04			.92	.02		1.70		2.12	.06						3.05
Saegerstown.....	Allegheny.....				1.00	.08	.50							.10		.26	.04		.11		*	.93											2.82
Sharon|||	Beaver.....	.43				.55		.13	.08			.06		T.			.20			.45	.01	*	.91										4.20
Somerset.....	Youghiogheny.....							.12	.08	.02		1.25				.30	.48		.22			1.28			.45								3.91
Springdale|||	Allegheny.....	.82			.32			.24				.22				.70	.01		.23	.04		1.26	T.		.06			.01					2.90
Tionesta.....	Allegheny.....																																5.04
Uniontown.....	Monongahela.....				T.		.27					.67	.40	.01	T.	.27		.17				.82		.29									5.04
Unity Reservoir||	Youghiogheny.....				.15		.15					.45	.15		.05	.18						3.33		.20									3.39
Vandergrift.....	Conemaugh.....				.28		.26				.02	.25		.04					1.15			.90		.46					.03				3.44
Warren.....	Allegheny.....				.85	.20		.18	.38							.20	.33				.55		.28	.46					.01				2.76
Washington.....	Ohio.....				T.		.62	T.	T.		.13	.05	.68			.05	.02				.32		.77	.09	.01		.02						3.87
Waynesburg|||	Monongahela.....																																1.78
Westford|||	Beaver.....																																
West Newton|||	Youghiogheny.....				.02				.30		.03		.30		.43			.08			.07	.18		.34	T.	.03							
Lake Drainage.																																	
Erie***	Lake Erie.....				1.07	.03		.30	.02	.11		T.		.33		.07	.24		T.	.22		.22											2.61
West Bingham.....	Genesee.....				.21	T.	.05		.35		T.		.04			.03	*			*			.80						.15				1.63

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Post Office address:—Greensburg † Daily amounts inconsistent.

Daily Temperatures for August, 1924

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum ..	78	74	82	85	90	100	98	88	94	90	84	75	83	78	80	83	75	70	78	77	80	81	75	86	78	83	88	87	87	92	97	83.7	
	Minimum ..	64	56	58	62	67	70	72	68	66	66	61	62	58	58	50	56	60	51	49	58	64	57	46	61	65	68	58	65	57	59	61	60.4	
Altoona.....	Maximum ..	74	72	68	84	90	90	80	84	85	82	72	76	79	72	77	77	72	70	75	80	82	73	78	80	72	77	86	78	82	87	92	78.9	
	Minimum ..	58	45	51	64	63	66	69	57	63	60	54	59	52	53	44	50	62	47	43	59	65	54	63	61	64	62	56	66	51	54	62	57.3	
Catawissa.....	Maximum ..	84	82	83	84	92	98	94	90	94	89	84	77	86	80	84	82	75	74	82	77	75	76	80	90	78	82	90	88	88	94	96	84.8	
	Minimum ..	60	46	48	55	69	68	68	60	62	60	54	56	56	54	45	48	62	50	44	61	61	53	58	62	66	64	52	65	52	54	58	57.1	
Chambersburg.....	Maximum ..	80	78	73	84	94	97	93	91	92	88	84	78	80	75	79	80	79	74	79	79	83	76	78	86	78	83	90	86	87	91	97	83.6	
	Minimum ..	62	53	60	65	61	67	68	59	63	63	61	63	56	56	49	51	65	53	45	61	63	57	64	67	67	66	54	64	54	54	60	59.7	
Claysville.....	Maximum ..	79	78	89	83	94	95	86	90	87	83	75	84	81	78	85	82	78	74	84	81	88	93	93	90	82	85	89	84	88	95	96	85.5	
	Minimum ..	56	46	52	61	70	71	69	61	70	59	58	56	50	46	43	64	50	41	46	64	63	64	64	62	65	58	61	59	49	58	61	58.0	
Clearfield.....	Maximum ..	68	70	68	75	73	94	84	78	80	79	77	66	62	64	68	73	67	62	68	69	85	84	91	88	82	86	89	85	92	96	97	78.1	
	Minimum ..	54	43	44	58	58	66	61	57	57	57	52	54	50	50	44	46	61	49	45	56	48	54	64	58	62	56	57	57	52	53	55	54.3	
Coatesville.....	Maximum ..	78	77	78	84	90	97	95	87	93	88	86	74	80	76	80	82	78	71	77	81	78	80	76	85	76	81	86	85	85	89	94	82.8	
	Minimum ..	65	53	56	60	67	73	74	67	65	67	62	62	58	61	49	53	64	52	48	59	68	57	61	55	66	67	58	65	60	57	59	60.9	
Emporium.....	Maximum ..	74	75	80	87	88	80	81	86	82	82	70	81	79	72	75	74	72	69	73	79	73	79	83	80	70	77	85	77	82	80	90	78.7	
	Minimum ..	50	41	41	58	66	66	62	56	63	57	48	55	51	46	42	45	60	53	42	60	60	62	65	54	62	55	51	55	51	55	54	54.1	
Erie.....	Maximum ..	65	69	84	88	86	92	77	84	76	73	72	73	69	69	76	75	68	68	73	80	71	90	81	84	76	76	86	73	76	88	90	77.7	
	Minimum ..	57	52	57	69	71	72	69	66	68	63	56	57	59	56	53	60	56	50	63	62	60	60	62	65	54	62	55	51	55	51	55	54	
Greensburg.....	Maximum ..	75	76	81	87	93	93	87	87	85	81	71	79	80	74	81	83	80	82	80	85	91	87	86	78	79	87	81	87	87	92	95	83.3	
	Minimum ..	58	47	55	63	67	70	70	61	67	62	53	57	52	44	66	61	63	48	64	67	63	63	60	61	62	58	59	50	56	55	59.5		
Grove City.....	Maximum ..	74	72	82	87	91	92	91	85	82	79	69	78	73	71	74	78	72	69	75	78	79	87	83	87	82	78	87	78	88	90	92	80.7	
	Minimum ..	53	44	54	65	70	71	70	58	67	64	49	53	49	44	43	43	63	49	41	63	63	62	66	57	66	56	65	56	49	55	58	57.0	
Harrisburg.....	Maximum ..	77	75	71	82	92	97	92	90	92	88	84	73	82	79	79	81	77	76	79	83	81	74	81	83	81	83	88	84	88	90	96	83.7	
	Minimum ..	63	58	59	64	68	74	76	69	70	68	64	62	62	61	54	57	64	57	52	62	65	60	66	66	69	68	62	69	65	61	66	63.9	
Indiana.....	Maximum ..	76	77	78	86	90	92	86	85	86	85	71	79	80	74	80	80	77	73	79	80	84	87	86	87	83	80	85	81	87	90	91	82.4	
	Minimum ..	56	48	52	63	62	68	70	58	66	59	53	57	50	50	47	54	59	47	42	62	66	61	63	61	65	60	55	60	50	54	60	57.4	
Johnstown.....	Maximum ..	79	80	74	89	94	97	93	83	89	90	83	76	81	83	77	85	84	74	75	83	84	88	88	83	88	74	85	91	84	90	97	98	84.5
	Minimum ..	60	51	59	62	65	69	69	61	68	63	58	62	55	55	47	52	60	51	46	62	68	60	66	65	68	65	65	68	55	53	62	60.0	
Lancaster.....	Maximum ..	84	81	78	80	92	100	97	91	97	92	91	84	82	84	83	83	81	82	84	83	90	81	79	89	82	87	92	90	90	92	98	87.1	
	Minimum ..	63	52	54	56	60	68	67	61	62	65	53	61	55	59	46	49	63	48	45	57	60	53	60	60	64	65	57	60	53	52	57	57.6	
Mifflintown.....	Maximum ..	81	79	73	81	94	97	93	89	89	88	83	81	85	88	79	81	77	76	79	83	81	74	81	83	81	83	88	84	88	90	96	83.7	
	Minimum ..	62	51	54	53	55	68	63	60	64	60	58	62	55	56	47	48	63	52	43	59	57	56	63	68	65	64	69	55	55	60	58.1		
Philadelphia.....	Maximum ..	77	78	79	83	89	96	95	89	93	88	86	73	82	79	79	81	78	72	77	79	81	81	76	83	79	82	87	87	85	90	92	83.1	
	Minimum ..	67	60	62	67	69	75	78	73	73	73	69	64	65	64	59	64	66	59	59	65	68	64	70	69	68	66	70	66	69	68	66.9		
Pittsburgh.....	Maximum ..	75	76	83	85	93	93	81	87	83	78	71	79	76	74	81	77	72	70	80	79	85	90	86	88	75	81	86	77	84	91	93	81.6	
	Minimum ..	57	52	58	68	70	77	70	64	72	64	59	58	59	55	52	65	57	51	50	68	68	68	69	68	65	62	65	64	57	63	70	62.7	
Reading.....	Maximum ..	78	78	77	84	89	97	95	89	92	90	85	76	81	76	80	81	76	72	76	78	78	78	77	86	75	82	88	85	86	90	96	83.0	
	Minimum ..	65	59	58	65	69	75	76	69	72	70	65	61	60	60	54	59	63	57	53	63	65	62	64	68	67	62	68	62	63	68	64.1		
Scranton.....	Maximum ..	73	75	81	81	90	93	89	86	89	83	76	76	82	73	78	80	71	68	73	74	78	75	76	86	76	79	84	79	85	89	92	80.3	
	Minimum ..	56	48	51	64	69	69	66	62	59	55	59	56	57	48	50	57	52	44	61	62	56	65	65	60	54	61	53	57	60	60	58.3		
Selinsgrove.....	Maximum ..	80	78	78	83	92	96	90	89	90	89	84	81	86	77	79	80	79	74	77	80	77	73	81	84	80	84	86	86	87	89	93	83.3	
	Minimum ..	60	49	51	62	67	69	68	60	59	59	58	61	55	54	48	51	64	53	45	61	64	56	68	64	65	66	55	60	55	64	58.9		
Somerset.....	Maximum ..	75	72	73	90	91	92	85	88	80	81	84	80	70	75	78	71	68	78	79	84	74	79	87	79	87	86	80	85	95	95	81.8		
	Minimum ..	57	45	55	60	64	66	66	60	65	67	56	62	60	48	54	59	59	45	47	60	65	60	60	61	66	66	56	65	48	56	59.1		
State College.....	Maximum ..	74	73	70	77	87	92	88	84	85	81	73	76	81	73	75	78	72	70	78	75	72	80	82	75	78	86	78	84	86	91	78.8		
	Minimum ..	55	45	49	61	64	65	71	56	66	56	52	56	51	48	44	60	50	43	57	64	49	61	60	59	60	57	62	51	53	60	55.9		
Towanda.....	Maximum ..	73	73	80	81	86	92	85	83	86	83	72	73	72	71	75	79	74	68	74	79	75	75	81	84	74	76	85	79	83	90	93	79.2	
	Minimum ..	56	42	47	56	67	68	57	59	61	59	54	58	55	53	44	46	61	54	44	61	62	63	65	61	64	58	51	59	51	55	57	56.4	
Uniontown.....	Maximum ..	77	76	84	87	92	94	91	88	86	82	77	78	81	72	81	81	73	70	82	78	86	90	82	87	76	80	86	82	85	91	92	82.8	
	Minimum ..	63	49	64	67	71	74	73	67	71	62	58	58	54	56	45	57	59	46	47	68	69	68	67	61	68	65	62	69	53	57	67	61.8	
Warren.....	Maximum ..	75	78	77	87	88	90																											

UNP

SIONITTI IO AUGUSTINO

1261 62 100

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXIX. SEPTEMBER, 1924. No. 9

GENERAL SUMMARY.

With the exceptions of 1888 and 1917, this was the coolest September in the history of the State weather service. Light frost occurred in the mountain districts and in the western and northern counties several times during the month, but with no extensive damage.

The rainfall average for the State was the largest on record for September during a period of 37 years. More than half of the rain occurred during a severe storm on the 29th and 30th. These rains raised most of the streams in the State to the flood stage or higher by midnight of the 30th, while low lands in all parts of the State were covered with water. In some places the water covered the State highways to such a depth that traffic was suspended for several hours. The greatest damage seems to have been done in the northeastern quadrants of the State where railroad traffic was seriously delayed by washouts.

Prior to these rains there were many places in the State that were badly in need of moisture, and where wheat seeding was delayed because the soil was too dry and lumpy to work properly. In the drier sections the pastures were very short and were turning brown. Low temperatures made for a slow development of the late corn crop, and at the end of the month only about two-thirds of the crop was beyond frost danger. Many fields of corn were beaten to the ground during the heavy rains near the end of the month. An average crop of buckwheat was harvested in good condition during the month. Oats harvest lasted into September this year in many places. The oats crop as a whole was the best for several years. Peaches of good quality were plentiful and pears were in fair supply, while apples were a light crop and of only fair quality. Late cutting of alfalfa and clover were made in some parts of the State.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 82 stations, was 59.8°, or 3.9° below the September normal. The highest mean was 65.0° at Philadelphia, and the lowest was 52.2° at Freeland. The highest temperature recorded during the month was 99° at Huntingdon on the 1st, and the lowest was 26° at West Bingham on the 24th. The greatest daily temperature range was 45° at Bradys Bend on the 25th.

PRECIPITATION.

The average rainfall for the State, as shown by the records from 123 stations, was 6.44 inches, or 3.16 inches above the September normal. The greatest monthly amount at any station was 11.72 inches at Gordon, and the least was 3.46 inches at the Philadelphia Navy Yard. The greatest amount recorded in any 24 consecutive hours was 8.11 inches at Lykens on the 29th and 30th. A single station, Freeland, reported a trace of snow on the 10th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total movement, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	*Highest	Direction	Date
Erie.....	196.2	374.3	52	73	75	11,090	15.4	41	n.	2
Harrisburg.....	194.6	373.5	52	78	68	4,614	6.4	26	se.	29
Philadelphia.....	177.5	373.5	43	75	68	6,446	9.0	30	s.	30
Pittsburgh.....	199.3	374.0	53	82	67	7,537	10.5	50	sw.	5
Reading.....	205.0	374.0	55	81	76	4,436	6.2	24	se.	29
Scranton.....	.....	.....	.....	91	85	4,344	5.9	37	w.	2

* For any five-minute period.

COMPARATIVE DATA FOR SEPTEMBER

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	59.6	.....	.....	4.84	.....	.....	.....	.....	.....
1889.....	61.9	.....	.....	5.05	.....	.....	.....	.....	.....
1890.....	62.2	.....	.....	4.57	8.54	2.05	10	.....	11
1891.....	66.6	91	25	2.39	5.00	1.05	17	.....	5
1892.....	62.4	90	29	2.81	4.85	1.18	16	.....	7
1893.....	61.2	90	26	2.67	5.59	0.72	9	12	9
1894.....	66.6	95	24	6.30	12.36	2.82	10	10	10
1895.....	67.8	100	24	1.71	5.41	0.37	16	.....	5
1896.....	63.6	98	26	4.82	8.57	1.73	13	.....	9
1897.....	63.8	100	24	2.18	4.21	0.25	18	.....	5
1898.....	66.0	100	25	1.70	3.95	0.38	16	.....	6
1899.....	61.8	93	23	4.70	9.31	2.03	12	.....	9
1900.....	68.4	100	27	1.77	6.90	0.48	13	10	7
1901.....	63.6	95	29	3.39	6.61	1.64	14	7	9
1902.....	62.7	99	28	4.66	11.95	1.50	12	8	10
1903.....	63.2	94	27	2.09	3.88	0.91	17	8	5
1904.....	63.7	95	21	3.37	7.40	0.82	13	10	7
1905.....	64.0	95	27	3.41	7.30	1.70	15	9	6
1906.....	67.0	99	30	2.46	6.57	0.86	15	9	6
1907.....	64.8	95	29	6.37	11.86	2.18	8	10	12
1908.....	65.6	99	26	1.60	4.06	0.51	17	9	4
1909.....	62.8	96	26	2.27	4.90	0.64	15	9	6
1910.....	65.5	95	32	4.49	8.45	2.26	13	8	9
1911.....	64.9	92	26	5.29	10.18	1.85	13	9	8
1912.....	65.5	95	25	5.57	11.43	2.47	12	7	11
1913.....	62.4	97	24	3.28	8.43	1.24	13	7	10
1914.....	61.5	93	21	0.99	2.67	0.03	18	7	5
1915.....	66.5	96	25	2.56	6.96	0.45	16	9	5
1916.....	62.5	98	23	3.77	8.18	0.91	17	8	5
1917.....	59.0	91	25	2.31	6.34	0.00	16	9	5
1918.....	58.7	88	28	3.97	7.52	1.82	12	8	10
1919.....	64.4	96	28	2.07	4.09	0.46	16	8	6
1920.....	64.5	91	24	3.99	9.40	0.97	16	8	6
1921.....	68.9	98	31	4.68	11.48	1.47	13	9	8
1922.....	66.3	100	22	1.48	3.73	0.17	19	7	4
1923.....	64.8	92	22	3.55	8.68	1.54	13	10	7
1924.....	59.8	99	26	6.44	11.72	3.46	11	7	12

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	2.0	3.2	11	1.6	4	18
Phillipsburg.....	Delaware.....	1.1	4.7	30	0.3	1	22
Mauch Chunk.....	Lehigh.....	3.8	12.7	30	3.5	1	12
Wilkes-Barre.....	Susquehanna.....	3.1	9.2	30	2.4	25	20
Williamsport.....	Susquehanna.....	0.8	6.3	30	0.4	19	20
Harrisburg.....	Susquehanna.....	3.5	4.4	30	3.4	6	17
Freeport.....	Allegheny.....	2.7	11.2	30	1.3	3	22
West Newton.....	Youghiogheny.....	0.5	3.0	30	0.1	2	20
Lock No. 4.....	Monongahela.....	13.6	20.2	30	12.9	19	31
Pittsburgh.....	Ohio.....	7.7	17.5	30	7.0	1	22
Beaver Dam.....	Ohio.....	7.8	12.5	30	7.0	9	30

Climatological Data for September, 1924

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	12	62.2	.....	95	1	40	25	36	5.00	+1.65	3.14	0	8	13	14	3	w.	John A. Frick.
Altoona	Blair	1,615	37	57.7	-5.0	90	1	35	11†	33	5.09	+2.31	1.75	0	12	12	5	13	w.	Lewis E. Biller.
Bethlehem	Northampton	295	40	62.4	-3.8	96	1	31	11	36	6.38	+2.99	2.87	0	7	.....	.....	.....	w.	R. H. Brennecke, Jr.
Biglerville	Adams	652	2	61.8*	.....	95	1	34*	11	35*	5.60	.....	2.60	0	5	12	1	17	.....	R. C. Walton.
Bustleton	Philadelphia	125	5	62.9	.....	96	1	40	25	33	6.55	.....	2.30	0	9	14	2	14	e.	Experiment Station
Carlisle	Cumberland	467	57	62.6	-2.1	98	1	37	11†	35	5.36	+1.74	2.77	0	8	12	5	13	ne.	Prof. C. E. Miller.
Catawissa	Columbia	520	27	60.2	-3.3	93	1	34	24	38	7.35	+3.95	3.63	0	7	19	4	7	.....	H. H. Yetter.
Center Hall	Center	1,272	28	58.6	-3.4	88	1	34	24	35	7.48	+4.49	3.85	0	9	15	5	10	.....	S. W. Smith.
Chambersburg	Franklin	580	24	61.2	-4.7	94	1	33	11	37	4.22	+1.48	2.85	0	9	10	4	16	se.	William B. Spear.
Clearfield	Clearfield	1,120	14	60.4	-2.8	92	1	35	7†	43	5.28	+1.50	1.27	0	13	14	4	12	nw.	E. W. Hess.
Coatesville	Chester	380	36	61.0	-5.1	93	1	34	11	33	6.72	+2.82	2.69	0	10	9	9	12	ne.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	14	60.1	.....	91	1	34	11	32	6.55	+3.13	2.85	0	12	12	6	12	nw.	Wm. A. Rorer.
Emporium	Cameron	1,050	36	55.9	-5.5	84	1	35	24†	35	6.61	+3.17	1.90	0	13	9	6	15	w.	T. B. Lloyd.
Ephrata	Lancaster	380	23	62.6	-2.9	92	1	38	24†	31	7.10	+3.62	3.15	0	8	11	7	12	s.	E. K. Hershey.
Everett	Bedford	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	B. Frank Chamberlain.
Freeland	Luzerne	1,970	9	52.2	.....	86	1	30	11†	32	9.38	.....	6.40	T.	14	12	2	16	sw.	Theo. Reichmann.
George School	Bucks	190	17	63.0	-1.9	97	1	37	25	36	5.55	+2.53	2.60	0	11	15	6	9	n.	Prof. N. W. Swayne.
Gettysburg	Adams	600	50	62.6	-2.4	97	1	36	11	40	6.58	+3.21	3.40	0	7	12	4	14	sw.	Col. E. B. Cope.
Gordon	Schuylkill	840	20	57.7	-4.1	90	1	31	11	36	11.72	+7.26	6.23	0	10	12	4	14	w.	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875	.....	54.6	.....	83	1	33	25	32	8.11	+4.79	4.15	0	9	13	4	13	w.	Gustav Holtz.
Hamburg	Berks	535	31	59.1	-6.4	90	1	34	11	36	5.70	+1.50	2.63	0	7	13	9	8	w.	State Sanatorium.
Hanover	York	600	20	62.9	-4.3	95	1	38	11	32	6.19	+3.34	3.36	0	10	15	5	10	se.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	54	61.7	-4.1	93	1	41	25	27	6.52	+3.67	3.94	0	12	6	7	17	se.	U. S. Weather Bureau.
Hawley	Wayne	900	5	57.2*	.....	90*	1	32*	24†	42*	4.74	.....	2.54	0	8	9	12	9	w.	J. S. Pennell.
Huntingdon	Huntingdon	650	36	60.0	-4.3	99	1	32	7	40	4.41	+0.99	1.94	0	11	11	7	12	w.	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Kennett Square	Chester	340	52	63.4	-2.8	95	1	38	25	35	6.63	+2.52	2.15	0	12	12	9	9	n.	W. P. Mercer.
Lancaster	Lancaster	255	36	62.8	-1.7	98	1	34	24†	42	6.20	+2.86	3.86	0	7	15	2	13	s.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	26	57.8	-3.5	87	1	31	27	41	6.23	+3.20	2.90	0	8	11	5	14	.....	C. P. Darling.
Lebanon	Lebanon	469	83	60.8	-4.4	95	1	37	24†	34	5.72	+2.54	3.09	0	10	17	6	7	se.	S. B. Beuzing.
Lewisburg	Union	450	49	61.5	-0.5	95	1	37	24†	37	6.88	+3.35	3.03	0	12	10	5	15	w.	Prof. W. G. Owens.
Lock Haven	Clinton	580	35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles Dunn.
Lykens	Dauphin	680	9	60.2	.....	94	1	32	11†	39	10.47	.....	8.11	0	9	15	8	7	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	33	60.2	-3.8	94	1	34	11	37	10.66	+6.79	5.28	0	10	12	5	13	w.	R. K. Wintermute.
Midlinton	Juniata	445	20	60.6	-3.2	92	1	34	11	36	5.34	+1.55	4.31	0	9	8	6	16	w.	Wellington Smith.
Montrose	Susquehanna	1,720	21	55.4	-4.7	82	1	34	7†	34	6.44	+2.52	2.70	0	8	15	4	11	s.	Silas Jagger.
Mt. Pocono	Monroe	1,658	21	53.2	-4.9	89	1	30	24	30	8.05	+3.16	2.90	0	7	10	11	9	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	12	57.7	.....	86	1	32	24	39	9.35	+5.87	4.08	0	9	11	7	12	w.	A. H. Boatman.
Narberth	Montgomery	300	6	62.6	.....	93	1	39	24	30	7.47	.....	2.50	0	12	10	3	17	ne.	Charles Decker.
Neshaminy Falls	Bucks	60	35	62.6	.....	96	1	38	25	34	4.84	.....	1.60	0	10	15	10	5	s.	North Springfield Water Co.
Palmerton	Carbon	398	7	61.9	.....	96	1	37	24	35	8.56	.....	3.93	0	7	17	5	8	ne.	F. G. Breyer.
Philadelphia (a)	Philadelphia	117	53	65.0	-3.0	95	1	48	11	28	5.08	+1.70	2.11	0	9	7	6	17	e.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	8	64.8	.....	94	1	46	11†	27	3.46	.....	1.88	0	8	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville	Chester	100	13	62.5	.....	96	1	37	25	32	6.31	.....	3.19	0	10	.....	.....	.....	.....	North Springfield Water Co.
Quakertown	Bucks	496	39	59.4	-4.2	96	1	32	25	40	6.88	+3.22	3.27	0	10	11	10	9	ne.	John E. Benner.
Reading	Berks	325	54	62.0	-4.3	94	1	42	25	28	6.33	+2.68	3.82	0	8	9	12	9	se.	U. S. Weather Bureau.
Scranton	Lackawanna	805	29	59.0	-3.9	88	1	37	24	35	7.35	+4.49	5.08	0	10	8	7	15	n.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	34	60.2	-4.2	89	1	32	11	35	7.25	+3.59	3.80	0	9	15	6	9	w.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	28	64.6	.....	92	1†	44	11†	27	6.04	+2.81	2.62	0	9	10	8	12	se.	W. S. Gules.
State College	Center	1,217	39	57.0	-5.4	89	12	33	25	36	4.52	+1.46	1.55	0	12	8	13	9	s.	C. A. Kern.
Towanda	Bradford	754	29	58.4	-3.6	84	1	35	24	36	6.34	+3.31	2.61	0	8	11	3	16	nw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	58	54.8	-4.9	86	1	30	24	39	5.75	+2.54	1.95	0	7	17	2	11	sw.	George W. Hill.
West Chester	Chester	455	86	61.6	-3.7	90	1	40	11†	27	6.36	+2.44	4.10	0	11	16	5	9	nw.	Arthur M. Hay.
Williamsport	Lycoming	521	37	60.5	-3.4	90	1	38	24	32	5.91	+2.70	3.90	0	12	14	6	10	nw.	George A. Beck.
York	York	400	36	62.0	-3.6	97	1	34	24†	39	4.19	+0.86	2.55	0	7	12	8	10	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	51	62.4	.....	95	1	38	11	32	5.98	+3.39	2.08	0	13	10	4	16	.....	U. S. Engineer.
Bradford	McKean	1,427	9	57.0*	.....	87*	1	31*	7†	44*	7.43	.....	3.39	0	11	8	8	14	w.	City Engineer.
Bradys Bend	Armstrong	930	6	56.8	.....	88	1	29	24	45	6.13	.....	2.57	0	12	10	9	11	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	33	55.2	-4.5	85	1	30	7†	42	6.48	+3.16	2.80	0	10	17	5	8	.....	John Fawcett.
Claysville	Washington	1,150	20	61.3	-3.9	92	1	31	11	41	6.96	+4.16	2.80	0	14	10	7	13	nw.	J. L. Melvin.
Corry	Erie	1,430	12	57.4	.....	86	1	30	24	43	8.36	.....	2.72	0	18	10	7	13	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	27	60.8	-4.6	89	1	34	11	38	6.28	+3.47	1.20	0	13	6	18	6	e.	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	6	56.0	.....	89	1	29	24	40	5.39	.....	2.01	0	12	10	5	15	w.	D. H. Jones.
Elk Lick	Somerset	2,680																		

Daily Precipitation for September, 1924

Stations	Drainage Basin	Day of month																															Total			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Atlantic Drainage.																																				
Allentown|||	Lehigh			16			26			18	51												05	62						08	3	14	5.00			
Altoona	Juniata	47				44			01	32				07						10	05	78	39						11	1	75	60	5.09			
Ansonia|||	W. Br. Susq.	02	66			13	03	06		46	28				12							07			16				02	38	3	02	5.41			
Bethlehem	Lehigh	25				39	07			62												07			1	35				02	83	2	87	6.38		
Biglerville	Susquehanna	23				T.				17				T		10						T		45							2	15	2	60	5.60	
Bloersville	Lower Susq.	25								*												80	46								3	95	2	05	7.66	
Bustleton	Lower Del.	37	T.			22				1	08			38				15					51	70				T	05	T.	3	95	2	30	6.55	
Carlisle	Lower Susq.	T.	41			37				02	04			T.							T.	T.	23	34						T.	1	18	2	77	5.36	
Catawissa	N. Br. Susq.	21				64				07	30										T.	T.	36							T.	2	14	3	63	7.35	
Center Hall	Susquehanna	32				44				08				14								48	42						36	3	85	1	39	7.42		
Chambersburg	Potomac	T.	33			34				07				01								07	40	15					T.	1	73	1	12	4.22		
Clearfield	W. Br. Susq.	24				40	05			03	94	06		10							02	20	60	40							1	27	97	5.28		
Coatesville	Lower Del.	46	03			19				68								09			02	33	67	04							1	84	2	69	6.72	
Colebrook	Lower Susq.	06	20			42				T	29	01		03							T.	T.	12	54	01				02		2	00	2	85	6.55	
Conshohocken	Schuylkill		56			22				32								10					33	81	*						T	2	00	3	04	7.38
Cresson|||	Juniata			92		*	60			02	*	62		*	20					*		17	50	*	43					15	75	1	32	5.68		
Doylestown	Lower Del.	34				20				28									13				24	91							78	2	87	5.75		
Emporium	W. Br. Susq.	55				37	12		05	1	10	05		18							T.	19	14	61					15	1	90	1	20	6.61		
Ephrata	Lower Susq.	02	36			34				1	55											05	34								3	15	1	29	7.10	
Everett	Juniata																																			
Forest City	N. Br. Susq.	24				93				86												T.	70	T.						T.	95	4	43	8.11		
Freeland|||	Lehigh			18			86	04	01	10	81	04			03							04	18	48					01	20	6	40	9.38			
George School	Lower Del.	22	05			14				21	60		T.	T.		03			06	09		T.	20	80						T.	58	2	60	5.55		
Gettysburg	Potomac	26	05			12				17												40	18								2	05	3	40	6.58	
Girardville|||	Susquehanna	48				86	21		02	90	T		03					05			01	09	71					02	4	69	2	86	10.93			
Gordon	Lower Susq.	38				60	24			94	T.								04			04	56	09							3	60	5	23	11.72	
Gouldsboro||	Lehigh		21				82	21			1	80												20	40						22	4	15	8.11		
Graterford	Schuylkill	34				*				78								05				T.	03								97	1	51	3.68		
Hamburg	Schuylkill	21				27				71								04					42								1	42	2	63	5.70	
Hanover	Lower Susq.	01	42			23				27				01				01			01	19	12								1	57	3	36	6.19	
Harrisburg***	do	04	26			52			01	16	T			01				T.	T.	05	12	39						01	T.	3	00	1	95	6.52		
Hawley|||	Upper Del.			03			79	T		29	72				04							T.	06	27							2	05	6	4	4.74	
Holtwood||	Lower Susq.			48			19			12	26						T.	T.				02	09	22							2	05	6	4	4.07	
Huntingdon	Juniata	11	26			21	T.		T.	15	10			14							T.	04	44	15						T.	1	94	8	7	4.41	
Jersey Shore	W. Br. Susq.																																			
Kennett Square	Delaware	90				26				48	01		29				08	05				04	50	22							1	65	2	15	6.63	
Lancaster	Lower Susq.	25				27				64												03	30									1	55	3	86	6.20
Lansford|||	Lehigh			13		27	*	68	05		21	45										14	58						*		1	46	8	3	9.21	
Lawrenceville	N. Br. Susq.	8				27				T	49	03		38				T.					11									1	25	2	90	6.23
Lebanon	Lower Susq.	24				59				30	05				T.			T.				04	06	38								3	09	7	2	5.72
Lewisburg	W. Br. Susq.	01	23			59	06			T	35	03		07							T.	14	36	*					01		2	00	3	03	6.88	
Lloyd	W. Br. Susq.		61			16	T.			04	62			19	21							*										1	93	1	86	5.72
Lock Haven	W. Br. Susq.																																			
Lykens	Susquehanna	25				48	30			59	03			T.								10	61						T.	3	11	5	00	10.47		
Mauch Chunk	Lehigh	20				54	12			1	25	02										07	1	02				03	2	13	5	28	10.66			
Mifflintown	Juniata	11				31	06			09												24	19					03	2	30	2	01	5.33			
Montrose	N. Br. Susq.	28				66				95	10			33								12									1	30	2	70	6.44	
Mount Pocono	Upper Del.	15				*	20	T.		69	T	*		*								06	1	40							2	65	2	90	8.05	
Mount Union|||	Juniata	46	20			39				13	*	05		*								30	35								6	0	2	54	5.02	
Muncy Valley	W. Br. Susq.	T.	45			80	05		T.	70	T.			18								02	48	T.							2	59	4	08	9.35	
Narberth	Lower Del.	29	06			33				38	T			20				11	05			01	78	69					T.	2	07	2	50	7.47		
Neshaminy|||	Lower Del.		45			20				*	1	15			20			30				01	76	78							*	1	60	4	84	4.84
Palmerton	Lehigh	08				58	T.			1	14			01							T.	04	69								2	10	3	93	8.56	
Philadelphia (a)...	Lower Del.	37				15				1	06	T.		01				21				02	76					T.	99	1	51	5.08				
Philadelphia (d)|||	do		61			20				42	T.				T.			13			T.	13	27								0	6	58	3.46		
Phoenixville	Schuylkill	38	63			15	08			24												02	22	40								7	53	19	6.31	
Pottstown	do	46				18	T.			42	03			T.				14				T.	44								5	4	2	32	4.53	
Pottsville	do	30				62	13			79				03							01	06	64	03							2	68	4	30	9.59	
Quakertown	Lower Del.	55	05			21				93								02				03	35	30							1	17	3	27	6.88	
Reading***	Schuylkill	32				26				T.	79			T.				15				03	27								2	03	2	48	6.33	
Renovo|||	W. Br. Susq.			75			24	07	10												50		21								6	8	2	42	4.97	
Scranton**	N. Br. Susq.	T	19			69	05		02	67			T.	06								02	32								2	00	3	33	7.35	
Selinsgrove	Lower Susq.	22				72	05			33	03											10	20								1	80	3	80	7.25	
Shawmont	Schuylkill	18				20				31				13																						

Continued on page 36

Daily Precipitation for September, 1924—Continued from page 35

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Irwin.....	Youghiogheny	.10			.32			T.	.24	.01				.31	.01						.21	.31	.88					T.	T.	.15	1.17	.40	4.11	
Johnstown.....	Conemaugh.	.36	.05		.81	.02		.01	.60	.30				.11					.06	.18	.20	.36	.45							.20	1.00	.52	5.23	
Ketner.....	Allegheny.....	.05	.95		.26	.07		.13	1.14	.04	.02		.13								.22	.08	.48								.23	1.25	7.19	
Linesville|||.....	Beaver	.27	.97	.10		.40		.05	.90	.36	.06		.76								.02	.53	.27						*	.23	.71	7.71		
Lock No. 4|||.....	Monongahela.	.10	.43		.19	.23			.36	.24	.24		.19	.16					T.		.17	1.35	.01					.01		1.27	1.05	6.00		
Lycippus.....	Conemaugh.	T.	.86		.65				1.19		.10		.65						T.	T.	.25		.78					T.		1.10	.70	6.28		
Martin.....	Monongahela.	.20	.68		.03	.50			1.12	.13	.02		.07	.32					T.			.11	1.37	.02				.04		.82	1.22	6.55		
New Castle|||.....	Beaver	.02			.12	.10			.76	.59	.06		.87						.03			.32	.06	.03						.22	.74	5.95		
Newell.....	Monongahela.	.52			.32				.49	.05		.39							.03		.12	.09	.29				.01		.35	1.44	.30	4.40		
Parkers Landing|||.....	Allegheny	.28	.70	.56		.10		.05	.82	.32	.08		.45									.40	.10							1.84	1.02	6.72		
Pennline|||.....	Beaver	.23	.69	.10		.20			.07	1.26	.07		.56			T.					.05	.75	.38							1.79	.70	6.94		
Pittsburgh***.....	Ohio.	.03	.27		.34			.05	.23	.02		.20						.02	.01		.33	.06	.71				T.	.01	.61	2.07	.43	5.39		
Ridgway†.....	Allegheny	.05	.58		.39	.06		.07	1.01			.34									.23		.56							1.02	1.12	5.69		
Saltsburg|||.....	Conemaugh.	.05		.17		T.	.37		.32	.38	.03		.10	.17					.02		T.	1.15	.75	.04						.33	2.87	.89	9.46	
Saegertown.....	Allegheny.	.33	1.62		.63	.15		.06	.95	.24		.69									.30	.09	.30					.01	.33	1.97	.33	7.83		
Sharon|||.....	Beaver	.80	.38	.12		.13	.13	.80	T.	.65	.55	.11		.96	T.						T.	.80	.10										4.85	
Somerset.....	Youghiogheny	.66			.60			.02	.67	.09		.09							.05	.25	.22	.24	.22							.16	.90	.68	6.27	
Springdale|||.....	Allegheny	.03	.39		.35	.17			.39	.42				.25	.04				.02			.31	1.04	.05									6.51	
Tionesta.....	Allegheny													.42						.02										.07	1.15	.89	6.51	
Uniontown.....	Monongahela.	.96			.70	.02		.01	1.28	.16				.42							.23	.21	.36					.03		.05	1.15	.90	5.28	
Unity Reservoir|||.....	Youghiogheny	.40			.43				.70	.10				.43								.37	.50	.25							.60	1.85	.60	4.66
Vandergrift.....	Conemaugh.	.30			.40				.40	.20				.04								.10	.14										7.32	
Warren.....	Allegheny.	.04	.29		.33	.22		.30	.60					1.01							.36	.30	.20										4.97	
Washington.....	Ohio.														*				T.											2.64	.10	8.54		
Waynesburg|||.....	Monongahela.		.25		.55			.40	.08													.79	.16								1.98	.76	6.20	
Westford|||.....	Beaver	.60	1.03		.10	.38		.05	.92	.67				1.04							T.	.46	.55										4.71	
West Newton|||.....	Youghiogheny		.02	.28		.33	.28		.41					.25								.18	.83	T.				.03		1.22	.88			
Lake Drainage.																																		
Erie***.....	Lake Erie	.09	.93		.56	.04	.02	.38	.30	.01		.28	.16	T	T.						T.	.17		.25						2.21	1.10	.69	7.19	
West Bingham.....	Genesee		1.25		.15	.02		T.	.75	.02			.20								T.	.06		.65						T.	1.80	1.30	6.20	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Post Office address:—Greensburg. ‡ Daily amounts inconsistent.

Daily Temperatures for September, 1924

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum 95	90	74	77	64	67	71	78	70	59	65	82	82	70	71	72	67	74	79	71	74	70	68	70	73	72	72	80	70	71	.....	73.3
	Minimum 66	65	56	48	51	45	44	52	57	51	42	46	56	59	51	47	49	51	50	43	57	59	48	41	40	41	44	49	61	54	.....	51.1
Altoona.....	Maximum 90	74	68	74	63	61	68	74	66	55	67	85	79	63	67	69	70	70	62	61	60	64	65	65	68	59	61	67	65	51	.....	67.0
	Minimum 67	58	46	42	47	42	39	51	54	44	35	52	57	50	45	49	46	48	41	58	56	58	43	35	36	43	50	56	51	42	.....	48.4
Catawissa.....	Maximum 93	83	76	79	59	69	74	76	69	60	65	83	75	72	72	72	76	75	65	68	69	72	69	68	75	73	75	73	75	69	75	72.7
	Minimum 64	62	46	41	49	40	38	52	60	48	37	47	57	49	46	47	44	47	50	55	58	44	34	37	39	42	46	46	46	46	.....	47.8
Chambersburg.....	Maximum 94	81	71	78	73	66	72	78	74	62	70	86	77	69	72	72	71	73	71	67	64	68	70	69	68	75	77	77	70	69	.....	72.2
	Minimum 62	63	49	44	51	41	36	54	60	47	33	51	53	53	51	46	50	47	55	59	54	62	44	37	36	43	51	60	65	46	.....	50.1
Claysville.....	Maximum 92	87	73	77	72	65	73	78	72	59	72	86	73	68	71	73	72	79	73	82	75	69	72	75	77	77	77	76	65	48	.....	73.6
	Minimum 68	58	44	40	54	36	36	52	53	41	31	54	55	46	41	47	52	53	55	61	63	60	39	35	39	55	56	57	47	41	.....	49.0
Clearfield.....	Maximum 92	83	77	78	68	67	75	80	74	58	71	88	77	68	69	73	74	80	68	64	62	67	71	74	79	80	77	73	67	56	.....	73.0
	Minimum 66	59	45	52	48	39	35	52	53	45	35	50	56	47	57	48	44	46	50	58	50	59	43	36	36	39	38	53	52	42	.....	47.8
Coatesville.....	Maximum 93	90	73	75	71	66	70	78	70	61	66	79	85	69	67	70	64	74	75	70	69	69	68	66	69	68	66	77	69	70	.....	71.9
	Minimum 66	63	55	47	48	38	37	45	61	45	34	46	60	59	50	48	54	49	50	55	57	63	49	36	36	40	44	60	65	50	.....	50.2
Emporium.....	Maximum 84	68	68	72	61	57	67	71	68	56	61	79	68	62	66	68	68	69	70	64	63	67	60	63	67	68	68	71	67	51	.....	66.4
	Minimum 55	56	44	40	45	38	36	36	50	42	38	48	56	49	48	50	44	44	60	59	56	42	35	35	35	38	48	48	48	45	.....	45.4
Erie.....	Maximum 79	70	67	69	64	59	66	74	63	54	63	82	69	64	63	68	66	69	78	70	75	68	60	61	68	76	73	73	53	47	.....	67.0
	Minimum 68	55	56	52	51	43	49	56	50	47	46	58	58	56	54	57	55	52	59	63	63	56	47	43	50	54	56	53	46	43	.....	53.4
Greensburg.....	Maximum 90	81	70	76	69	62	70	79	72	55	69	84	80	73	74	70	65	65	71	68	75	68	72	72	75	63	66	72	72	50	47	71.3
	Minimum 64	59	45	42	48	41	37	54	54	43	33	54	56	50	43	53	51	52	57	60	61	60	42	38	42	51	53	58	50	45	.....	50.0
Grove City.....	Maximum 94	71	70	72	61	58	66	74	73	52	66	79	70	65	65	71	68	75	68	72	72	75	63	66	72	72	70	72	50	47	.....	68.3
	Minimum 65	49	47	44	50	41	39	54	51	43	40	52	55	49	52	48	54	54	60	61	61	54	40	36	42	49	52	46	45	43	.....	49.2
Harrisburg.....	Maximum 93	83	71	76	62	64	70	78	70	60	68	82	77	68	70	69	68	73	70	65	64	68	68	66	67	68	67	75	70	54	.....	70.1
	Minimum 72	62	56	54	51	47	46	56	57	47	41	55	62	56	52	50	54	55	56	59	57	58	53	44	41	47	50	60	54	46	.....	53.3
Indiana.....	Maximum 89	85	71	74	67	63	69	77	75	55	65	82	79	65	71	74	73	74	70	69	70	66	67	72	73	68	67	71	66	50	.....	70.6
	Minimum 62	60	45	43	49	39	34	55	54	44	33	51	55	43	46	52	48	50	53	57	60	60	42	37	43	50	53	61	49	42	.....	49.0
Johnstown.....	Maximum 94	74	75	76	60	64	75	80	67	57	73	87	64	63	72	73	74	74	74	74	63	65	70	69	72	73	63	63	71	64	.....	69.9
	Minimum 68	60	48	45	48	43	37	54	53	45	35	48	38	55	44	52	50	52	56	60	60	58	48	39	38	42	53	59	48	44	.....	49.3
Lancaster.....	Maximum 98	95	82	82	79	71	78	77	84	76	74	80	80	80	75	74	70	78	77	74	70	71	76	73	72	74	70	82	80	73	.....	77.5
	Minimum 60	61	49	43	46	39	36	44	63	47	36	47	55	55	48	42	50	44	47	54	55	61	42	34	34	38	42	57	65	50	.....	48.1
Mifflintown.....	Maximum 92	80	74	79	67	64	72	78	72	62	68	84	77	68	72	71	72	74	70	65	62	67	70	69	70	67	68	75	70	62	.....	71.4
	Minimum 65	62	55	43	50	44	37	58	60	49	34	53	54	54	45	45	46	46	51	60	55	62	43	36	36	38	49	59	61	46	.....	49.9
Philadelphia.....	Maximum 95	91	71	75	73	68	71	77	73	61	66	80	83	70	69	70	62	75	77	68	70	73	69	65	70	68	69	78	73	73	.....	72.8
	Minimum 74	63	61	57	54	50	52	58	61	53	48	57	65	63	59	57	57	58	60	57	59	62	52	48	51	52	52	60	66	52	.....	57.3
Pittsburgh.....	Maximum 88	71	71	73	63	60	69	76	67	54	68	82	73	62	69	72	71	72	75	67	67	67	65	70	73	71	69	73	64	48	.....	69.3
	Minimum 69	57	52	51	47	47	45	60	48	45	42	61	57	53	51	58	55	56	61	64	64	57	49	45	47	54	59	61	44	43	.....	53.4
Reading.....	Maximum 94	88	73	76	64	64	70	77	67	57	65	81	82	71	69	69	65	74	73	66	67	69	67	67	68	68	66	76	70	71	.....	71.1
	Minimum 73	61	55	51	51	46	47	56	56	47	43	53	63	56	52	50	51	52	52	56	56	60	51	43	42	44	46	58	64	49	.....	52.9
Scranton.....	Maximum 88	83	70	74	58	61	69	73	68	52	60	81	72	64	67	71	69	72	74	69	64	68	60	66	74	72	70	73	69	50	.....	68.7
	Minimum 69	57	51	45	48	43	43	52	52	46	40	49	58	53	50	51	50	49	50	55	56	55	45	37	39	42	42	57	49	47	.....	49.3
Selinsgrove.....	Maximum 89	80	73	75	70	63	74	76	72	64	67	81	75	72	73	72	74	75	67	64	68	69	69	72	70	71	77	72	69	47	.....	72.3
	Minimum 55	61	49	44	60	41	39	45	61	38	32	52	58	42	47	45	46	44	49	59	56	62	40	36	38	40	42	60	64	45	.....	48.1
Somerset.....	Maximum 92	81	60	74	65	62	70	80	71	52	70	81	70	58	70	68	71	67	64	59	66	60	67	68	68	58	64	68	66	68	.....	67.9
	Minimum 60	58	44	39	44	39	33	52	48	40	32	45	53	52	38	45	45	44	55	57	57	56	42	34	35	48	51	56	47	40	.....	46.3
State College.....	Maximum 88	74	67	73	66	58	67	73	69	54	63	89	72	62	65	64	68	71	66	64	61	65	64	63	67	64	63	66	66	49	.....	66.7
	Minimum 67	59	46	42	49	40	41	51	53	43	36	53	59	50	47	46	43	45	48	56	51	56	44	34	33	35	44	56	49	40	.....	47.2
Towanda.....	Maximum 84	77	69	72	71	61	68	73	69	56	62	80	72	63	65	71	68	70	73	68	63	69	63	68	70	72	73	72	68	49	.....	68.3
	Minimum 67	57	48	43	49	42	40	51	50	46	42	49	61	49	50	51	46	47	46	57	55	62	45	35	36	39	37	56	49	45	.....	48.5
Uniontown.....	Maximum 89	83	69	74	68	63	70	78	72	57	68	83	72	67	71	72	73	68	74	70	75	74	67	73	70	68	69	73	67	50	.....	70.9
	Minimum 72	61	48	44	54	43	38	35	55	46	34	54	59	53	45	58	58	56	61	64	65	63	47	43	49	57	58	60	50	44	.....	52.5
Warren.....	Maximum 85	72	75	75	60	60	58	67	67	65	62	80	70	60	56	60	70	66	76	68	70	69	65	76	75	74	75	75	50	.....	68.4	
	Minimum 57	54	46	42	44	40	36</																										

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXIX. OCTOBER, 1924. No. 10

GENERAL SUMMARY.

October was, by far, the driest month that has occurred in the 37 years of the State Weather Service. The average rainfall for the State was only 0.28 inch, while the second driest month, that of March, 1910, had an average precipitation of 0.56 inch. Had it not been for the heavy rains that occurred on September 29th and 30th, flooding the streams and filling ponds and reservoirs, the drought would no doubt have caused much inconvenience and suffering.

In this connection it may be mentioned that the precipitation, as published in this bulletin, includes several measurements, made on the morning of the 1st, of rain that occurred during the preceding 24 hours. In this particular instance the rains ceased in all parts of the State before midnight, and these measurements technically belong to September. If these measurements are eliminated from the October rainfall as published, the average for the State is only 0.16 inch, while the greatest amount becomes 0.42 inch at Elk Lick instead of 2.30 inches at Hawley as published below.

It is fortunate that such a drought occurred after the crops were made instead of during the growing season. However the soil moisture held up surprisingly well, and wheat and pastures did not seem to be much affected until near the close of the month. The extremely dry conditions resulted in more than the usual damage by forest fires. The temperatures were mostly seasonable; there being a slight excess for the month. Frosts occurred on various dates with local damage, but there was no severe general freeze until the 22d and 23d, when all but the hardiest vegetation was killed. Many fields of late corn were killed just as the grain was beginning to harden, resulting in some soft corn and a large amount of shrunken grain. The loss of late truck was also considerable.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 84 stations, was 52.9° or 0.6° above the October normal. The highest mean was 58.6° at Philadelphia and the lowest was 44.7° at West Bingham. The highest temperature recorded during the month was 87° at Indiana on the 9th, and the lowest was 14° at Bradys Bend on the 23d. The greatest daily temperature range was 54° at Clearfield on the 10th and 11th.

PRECIPITATION.

The average rainfall for the State, as shown by the records from 123 stations, was 0.28 inch, or 3.03 inches below the October normal. The greatest monthly amount at any station was 2.30 inches at Hawley. No precipitation at all was reported from six stations, namely, Bethlehem, Center Hall, Hamburg, Montrose, Renovo, and Unity Reservoir. The greatest amount recorded in any 24 consecutive hours was 2.22 inches at Hawley on September 30th. Several stations in the western and northern portions of the State reported traces of snow.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total movement, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	* Highest	Direction	Date
Erie.....	248.6	343.1	72	72	71	8,670	11.7	48	se.	31
Harrisburg.....	269.6	345.2	78	71	57	3,941	5.3	27	ne.	12
Philadelphia.....	283.8	345.2	82	63	52	6,245	8.4	35	n.	20
Pittsburgh.....	265.2	344.1	77	82	58	5,177	7.0	34	nw.	31
Reading.....	290.0	345.0	84	73	67	3,183	4.3	18	nw.	21
Seranton.....	.....	.....	.....	92	78	4,078	5.5	25	sw.	1

* For any five-minute period.

COMPARATIVE DATA FOR OCTOBER

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	46.3	74	19	4.02	9.18	2.04	9	6	16
1889.....	47.3	83	13	3.85	8.61	1.88	8	9	14
1890.....	50.9	81	21	5.87	8.41	4.03	6	8	17
1891.....	50.6	91	15	3.06	4.46	0.84	11	9	11
1892.....	50.8	83	16	0.72	2.93	0.00	13	11	7
1893.....	53.0	91	17	3.26	6.58	1.18	14	8	9
1894.....	53.6	88	24	4.26	7.66	0.65	12	8	11
1895.....	47.3	76	17	1.99	4.63	0.45	17	8	6
1896.....	48.9	86	18	3.19	5.70	0.94	11	8	12
1897.....	54.2	95	16	1.32	5.93	T.	14	8	9
1898.....	53.8	92	20	5.20	8.62	2.36	11	7	13
1899.....	54.6	94	15	1.55	3.81	0.53	13	8	10
1900.....	58.6	95	19	2.74	5.10	0.80	11	9	11
1901.....	52.2	83	20	1.23	3.35	0.23	16	10	5
1902.....	53.1	89	19	4.64	8.12	1.65	12	9	10
1903.....	53.4	91	20	4.64	10.53	2.07	12	8	11
1904.....	50.6	91	12	2.87	7.11	1.26	15	8	8
1905.....	53.2	90	16	4.28	7.06	2.18	14	7	10
1906.....	52.0	87	14	4.46	8.39	1.97	7	7	17
1907.....	48.2	87	13	3.16	5.64	1.01	16	8	7
1908.....	54.6	93	19	1.95	5.48	0.08	16	7	8
1909.....	48.4	87	15	2.27	4.60	0.70	13	7	11
1910.....	55.6	91	14	1.91	5.23	0.62	16	8	7
1911.....	52.3	83	18	4.83	9.23	2.59	11	7	13
1912.....	54.2	90	23	2.74	5.27	0.90	15	7	9
1913.....	54.9	88	16	5.44	9.62	3.15	10	6	15
1914.....	56.4	91	11	2.35	4.37	0.89	11	9	11
1915.....	54.2	85	17	2.65	5.33	1.00	15	7	9
1916.....	52.1	92	16	2.25	4.45	0.76	18	7	6
1917.....	47.2	84	12	6.38	9.80	3.33	10	10	11
1918.....	55.5	85	19	3.17	2.20	0.24	15	8	8
1919.....	57.5	92	21	4.77	8.04	2.28	9	8	14
1920.....	57.5	88	22	1.67	4.67	0.50	19	7	5
1921.....	52.6	84	3	2.16	6.55	0.40	17	7	7
1922.....	54.8	94	12	2.51	5.60	0.65	18	6	7
1923.....	51.0	87	12	2.38	6.01	0.90	15	8	8
1924.....	52.9	87	14	0.28	2.30	0.00	21	7	3

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.5	14.7	1	1.7	30	18
Phillipsburg.....	Delaware.....	2.2	22.0	1	0.7	30	22
Mauch Chunk.....	Lehigh.....	4.4	9.8	1	3.7	18	12
Wilkes-Barre.....	Susquehanna.....	6.3	21.9	1	3.0	31	20
Williamsport.....	Susquehanna.....	2.0	9.6	1	0.6	25	20
Harrisburg.....	Susquehanna.....	5.2	14.6	1	3.5	31	17
Freeport.....	Allegheny.....	4.4	18.0	1	1.5	31	22
West Newton.....	Youghiogheny.....	0.7	5.1	1	0.0	26	20
Lock No. 4.....	Monongahela.....	14.0	25.8	1	12.6	18	31
Pittsburgh.....	Ohio.....	8.9	20.4	1	6.7	31	22
Beaver Dam.....	Ohio.....	10.0	25.0	2	6.6	18	30

Climatological Data for October, 1924

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	12	54.4	.....	82	3	30	23	59	1.66	-1.75	1.66	0	1	17	14	0	w.	John A. Frick.
Altoona.....	Blair.....	1,615	37	53.6	+1.7	76	5†	26	23	40	0.20	-2.29	0.11	0	3	24	6	1	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	295	40	56.1	+0.6	81	6	31	23	38	0.00	-3.23	0.00	0	0	7	24	0	w.	R. H. Brennecke, Jr.
Biglerville.....	Adams.....	652	2	55.3°	.....	81°	6	29°	21†	43°	.....	.....	0.04	0	1	26	3	2	.....	R. C. Walton.
Bustleton.....	Philadelphia.....	125	5	55.6	.....	81	6	30	23	34	0.17	.....	0.16	0	2	24	5	2	n.	Experiment Station
Carlisle.....	Cumberland.....	467	57	56.2	+3.9	83	6	32	14†	40	0.20	-3.06	0.14	0	2	26	2	3	ne.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	27	52.2	-1.4	81	6	28	23	44	0.27	-2.83	0.25	0	3	25	2	4	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	28	53.7	+2.3	80	6	25	23	44	0.00	-3.05	0.00	0	0	26	3	2	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	24	54.1	+1.3	83	6	25	23	42	0.12	-3.08	0.12	0	1	25	2	4	ne.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	14	54.7	+1.7	86	11	26	21	54	0.10	-2.22	0.10	0	1	23	7	1	w.	E. W. Hess.
Coatesville.....	Chester.....	380	36	52.7	-1.6	81	6	25	23	39	0.05	-3.47	0.04	0	2	20	9	2	nw.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	14	52.8	.....	74	3†	27	23	37	0.01	-2.96	0.01	0	1	23	5	3	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	36	49.6	-0.4	77	5	21	23	43	0.24	-3.06	0.14	0	3	24	3	4	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	23	54.2	-0.9	79	7	28	23	36	0.07	-3.10	0.07	0	1	24	4	3	n.	E. K. Hershey.
Freeland.....	Luzerne.....	1,970	9	44.8	.....	70	6	22	23	30	1.46	.....	1.10	T.	2	20	7	4	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	17	55.0	+0.1	82	6	26	23	40	0.29	-2.96	0.28	0	2	29	1	1	w.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	600	50	56.4	+4.2	85	6	29	23	42	0.10	-3.10	0.10	0	1	23	5	3	nw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	20	49.6	-1.1	76	5†	25	23	42	0.38	-4.00	0.38	0	1	21	5	5	nw.	Capt. J. G. Johnson.
Gouldsboro.....	Wayne.....	1,875	31	47.0	.....	73	5	25	14	33	1.92	-1.63	1.72	0	2	22	5	4	w.	Gustav Holtz.
Hamburg.....	Berks.....	535	31	52.7	-1.2	79	5	29	14	44	0.00	-4.06	0.00	0	0	23	6	2	sw.	State Sanatorium.
Hanover.....	York.....	600	20	55.5	-0.6	82	6	29	22	35	0.19	-2.67	0.19	0	1	26	1	4	n.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	54	56.0	+1.2	80	6	37	14	32	0.02	-2.93	0.01	0	2	19	7	5	nw.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	5	48.4	.....	78	5	21	18	45	2.30	.....	2.22	0	2	24	2	5	w.	J. S. Pennell.
Holtwood.....	Lancaster.....	200	9	55.6	.....	81	6	35	22	27	T.	.....	T.	0	0	20	0	11	.....	H. W. Law, C. E.
Huntingdon.....	Huntingdon.....	650	36	53.3	+0.8	82	5	20	23	46	0.09	-2.92	0.07	0	2	24	5	2	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	4	53.3	.....	81	6	28	23	47	0.06	.....	0.04	0	2	29	2	0	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	52	56.2	+1.6	83	6	29	23	38	0.08	-3.31	0.06	0	2	25	5	1	n.	W. P. Mercer.
Lancaster.....	Lancaster.....	255	36	55.2	+1.8	85	6	24	23	48	0.07	-3.01	0.07	0	1	26	2	3	n.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	26	49.2	-1.3	80	5	25	14†	47	0.18	-2.58	0.14	0	2	22	4	5	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	83	54.8	+1.6	82	6	30	23	40	0.02	-3.50	0.02	0	1	24	6	1	nw.	S. B. Benzing.
Lewisburg.....	Union.....	450	49	53.0	+2.8	82	6	29	14†	44	0.22	-3.02	0.19	0	4	20	6	5	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	580	35	54.4	+1.1	82	6	26	23	44	0.32	-2.93	0.21	0	2	.....	.....	.....	sw.	Charles Dunn.
Lykens.....	Dauphin.....	630	9	53.1	.....	81	6	27	14†	44	0.10	.....	0.10	0	1	28	1	2	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	33	53.7	+1.4	80	6	28	14†	44	0.18	-3.58	0.18	0	1	24	5	2	w.	R. K. Wintermute.
Mifflintown.....	Juniaata.....	445	20	54.1	+1.7	80	6	24	23	45	0.20	-3.04	0.16	0	2	23	4	4	w.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	21	49.0	0.0	76	6	25	23	35	0.00	-3.52	0.00	0	0	23	2	6	w.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,658	21	49.8	+2.4	77	6	26	13†	36	3.00	-4.72	0.30	T.	1	23	3	5	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	12	49.8	.....	76	3	25	2	43	0.25	-3.11	0.19	0	2	22	6	3	w.	A. H. Boatman.
Narberth.....	Montgomery.....	300	5	55.5	.....	81	6	31	23	32	0.17	.....	0.15	0	2	20	8	3	nw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	35	53.8	.....	82	6	25	23	43	1.43	.....	1.25	0	2	24	5	2	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	7	53.2	.....	82	6	27	18†	46	0.12	.....	0.12	0	2	20	8	3	.....	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	53	58.6	+0.8	80	6	37	23	25	0.09	-3.01	0.08	0	2	18	8	5	n.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	8	57.8	.....	80	6	35	23	29	1.28	.....	1.18	0	2	.....	.....	.....	.....	Commandant, Navy Yard.
Phoenixville.....	Chester.....	100	13	53.4	.....	80	6†	26	23	37	0.23	.....	0.23	0	1	28	3	0	nw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	39	51.9	-0.2	79	6	26	14	44	0.14	-3.23	0.12	0	2	18	10	3	nw.	John E. Benner.
Reading.....	Berks.....	325	54	56.3	+1.6	80	6	35	23	33	0.04	-3.22	0.04	0	1	24	5	2	nw.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	29	51.8	-0.1	78	6	31	18	35	0.08	-2.83	0.08	T.	1	18	8	5	n.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	34	53.1	+0.5	80	6	29	23	43	0.45	-3.09	0.25	0	2	20	8	3	w.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	28	55.0	.....	75	6†	32	23	31	0.09	-3.25	0.09	0	1	26	4	1	nw.	W. S. Guiles.
State College.....	Center.....	1,217	39	50.8	-0.2	76	5	25	23	40	0.12	-2.77	0.10	0	2	19	11	1	w.	C. A. Kern.
Towanda.....	Bradford.....	754	29	49.8	-1.0	80	5	26	27	42	0.08	-3.02	0.08	T.	2	17	8	6	nw.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	58	47.1	-2.0	79	5	20	23	49	0.03	-3.17	0.3	T.	1	25	2	4	sw.	George W. Hill.
West Chester.....	Chester.....	455	86	54.7	+0.2	79	6	30	23	32	0.06	-3.68	0.05	0	2	26	4	1	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	37	53.0	+0.4	81	6	30	23	41	0.33	-3.04	0.17	0	2	21	7	3	nw.	George A. Beck.
York.....	York.....	400	36	53.8	+0.2	84	6	21	23	44	T.	-2.88	T.	0	0	26	1	4	s.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	31	55.3	.....	81	3†	28	23	40	0.21	-2.30	0.12	0	2	23	4	4	.....	U. S. Engineer.
Bradford.....	McKean.....	1,427	9	49.8	.....	80	3	24†	11†	53	0.21	.....	0.19	0	2	18	7	6	sw.	City Engineer.
Bradys Bend.....	Armstrong.....	930	6	48.8	.....	79	3†	14	23	50	0.07	.....	0.05	T.	2	24	4	3	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	33	47.8	-2.6	79	3	20	23	49	0.31	-2.66	0.20	0	2	30	1	0	.....	John Fawcett.
Claysville.....	Washington.....	1,150	20	54.6	+0.9	82	3†	21	23	47	0.38	-2.94	0.22	0	4	22	4	5	n.	J. L. Melvin.
Corry.....	Erie.....	1,430	12	50.4	.....	81	3	20	23	49	0.62	.....	0.29	T.	5	18	9	4	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	27	54.7	+0.3	83	3	25	23	46	0.14	-3.11	0.06	0	3	20	11	0	w.	Wm. A. Huff, Jr.
Ebensburg.....	Cambria.....	2,000	6	52.6	.....	78	5	24	23	42	0.									

Daily Precipitation for October, 1924

Continued on page 40

Daily Precipitation for October, 1924—Continued from page 39

Stations	Drainage Basin	Day of month																															Total				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Irwin.....	Youghiogheny	.01							.05																				T.				0.06				
Johnstown.....	Conemaugh								.02																				.01			.08	0.11				
Ketner.....	Allegheny	.06						.10	.03																							.05	0.24				
Linesville|||	Beaver	.40						.14	T.	.06											T.												0.60				
Lock No. 4|||	Monongahela	.07						T.																						.06	T.		0.13				
Lycippus.....	Conemaugh							T.																				.05	T.				0.05				
Martin.....	Monongahela	.12																			.06								.04				0.22				
New Castle|||	Beaver	.13			.02				.01																								0.16				
Newell.....	Monongahela	.04																										.02	.06			.06	0.18				
Parkers Landing|||	Allegheny	.05						T.		.08																				T.			0.13				
Pennline|||	Beaver	.34						.12			.05																						0.51				
Pittsburgh***	Ohio								.06																								0.12				
Ridgway.....	Allegheny	.06							.13													T.										.05	0.19				
Saltsburg|||	Conemaugh	.08								.09																							0.19				
Saegertown.....	Allegheny	.15						.12	.20	.02																				.02			0.54				
Sharon|||	Beaver	.33								.08																							0.41				
Somerset.....	Youghiogheny																												.10		.25	.15	0.50				
Springdale|||	Allegheny	.10								.07																							0.17				
Uniontown.....	Monongahela	.04								T.											T.	.03								T.	.06		0.13				
Unity Reservoir||	Youghiogheny																																0.00				
Vandergrift.....	Conemaugh									.20																						T.	0.20				
Warren.....	Allegheny	.03						.02	.13																								.14	0.32			
Washington.....	Ohio							T.	T.	T.										.03	.07	T.							.07			.09	0.26				
Waynesburg|||	Monongahela									T.																							0.19				
Westford|||	Beaver	.19						.17																							.14		.05	0.36			
West Newton|||	Youghiogheny	.06								T.																							0.08				
<i>Lake Drainage.</i>																																					
Erie***	Lake Erie								.01																								T.	0.02			
West Bingham.....	Genesee								.10																									0.10			

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurement.

T (trace) when precipitation is less than .01 inch.

§ Incomplete or missing.

†† Post Office address:—Greensburg,

† Daily amounts inconsistent.

Daily Temperatures for October, 1924

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum ...	59	71	82	72	76	76	73	61	66	73	77	72	64	68	71	69	70	68	68	62	47	52	60	68	71	72	71	73	68	59	54	67.5	
	Minimum ...	44	40	43	44	49	51	51	49	36	38	43	45	36	34	36	42	44	35	35	41	39	37	30	33	41	38	38	40	50	51	46	41.3	
Altoona.....	Maximum ...	56	70	74	72	76	76	74	62	63	72	76	74	66	73	72	71	73	72	74	65	56	49	54	63	69	72	63	61	67	60	60	67.3	
	Minimum ...	40	40	40	41	46	53	44	42	32	32	36	41	31	35	43	41	46	38	51	44	27	33	26	40	38	37	42	48	48	37	47	40.0	
Catawissa.....	Maximum ...	70	78	78	74	78	81	74	59	63	70	73	75	63	68	73	71	73	72	72	64	52	62	70	72	74	66	67	70	58	55	68.6		
	Minimum ...	37	40	43	43	44	49	43	43	32	31	37	35	30	29	29	37	36	31	34	34	33	36	28	29	32	30	29	34	42	38	39	35.7	
Chambersburg.....	Maximum ...	61	72	78	73	79	83	77	67	65	72	75	78	68	71	75	75	76	73	75	66	55	53	59	69	71	72	68	59	72	61	55	69.5	
	Minimum ...	46	37	38	42	46	48	45	53	34	31	37	36	32	31	37	40	41	38	46	47	29	27	25	28	33	32	38	50	44	41	49	38.7	
Claysville.....	Maximum ...	61	76	82	80	82	79	76	67	68	74	78	78	70	76	71	75	79	75	75	68	48	57	56	64	69	68	62	67	69	73	69	70.7	
	Minimum ...	38	35	40	46	53	60	41	49	34	28	31	38	41	34	37	39	44	37	51	47	26	37	33	29	32	30	41	46	31	31	48	38.5	
Clearfield.....	Maximum ...	61	80	83	83	84	83	71	62	74	84	86	84	78	80	78	78	78	76	80	60	56	52	64	67	75	77	75	68	64	65	68	73.4	
	Minimum ...	42	33	37	39	46	52	42	38	30	30	32	31	31	30	37	37	39	34	42	76	26	37	33	29	32	30	32	45	41	35	38	36.0	
Coatesville.....	Maximum ...	58	69	75	69	75	81	72	62	64	70	74	74	62	66	70	69	73	69	70	61	48	52	56	66	68	70	71	68	70	59	56	66.7	
	Minimum ...	38	34	37	43	55	52	47	45	34	31	41	39	33	27	35	39	43	32	40	42	27	30	25	33	35	33	36	51	53	46	45	38.7	
Emporium.....	Maximum ...	55	67	73	71	77	72	57	57	63	70	72	75	64	68	68	66	69	68	64	54	41	46	58	61	67	68	66	65	61	63	62	64.3	
	Minimum ...	38	33	36	39	47	50	43	40	30	30	30	35	32	28	28	42	40	34	42	32	29	33	21	25	31	25	26	41	35	50	34.8		
Erie.....	Maximum ...	57	72	80	77	79	72	58	52	60	63	67	63	60	69	60	68	60	67	60	62	59	55	44	44	55	58	61	64	61	59	70	65	62.7
	Minimum ...	43	47	53	57	64	52	50	45	41	41	46	50	43	47	49	47	44	42	49	43	40	37	34	46	46	47	44	52	47	48	50	46.6	
Greensburg.....	Maximum ...	58	73	82	77	81	76	74	65	70	75	76	75	65	69	72	70	72	72	68	74	67	46	52	54	61	65	72	68	64	76	72	69.2	
	Minimum ...	40	39	42	48	51	58	41	46	33	32	32	38	37	34	36	40	38	40	43	46	27	37	24	30	32	29	43	47	38	36	47	38.8	
Grove City.....	Maximum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Minimum ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Harrisburg.....	Maximum ...	59	71	74	66	76	80	74	59	61	69	71	74	62	69	72	72	70	72	72	62	47	49	56	66	68	71	70	65	68	56	55	66.3	
	Minimum ...	47	41	44	48	52	54	52	47	42	46	49	47	43	37	44	46	49	41	56	44	40	37	37	42	46	40	44	53	52	50	49	45.8	
Indiana.....	Maximum ...	58	72	80	76	78	78	75	62	87	75	77	77	71	74	71	73	74	75	70	62	48	52	57	60	69	73	68	64	71	73	71	70.0	
	Minimum ...	40	33	44	48	48	53	42	43	45	34	35	35	34	34	37	32	34	37	40	41	26	36	23	28	31	33	40	46	39	37	48	37.9	
Johnstown.....	Maximum ...	56	75	80	78	81	78	75	65	70	77	78	78	75	68	74	72	72	71	72	61	44	50	53	60	67	69	62	63	68	66	68	68.5	
	Minimum ...	43	39	39	43	46	52	44	44	34	33	33	38	38	34	42	39	44	38	54	44	35	38	28	31	34	33	40	49	43	37	50	40.0	
Lancaster.....	Maximum ...	65	76	78	76	79	85	81	73	72	77	79	78	74	72	77	74	78	75	77	72	66	58	64	72	74	77	77	73	74	70	63	73.7	
	Minimum ...	54	36	37	41	45	46	43	50	42	30	36	37	30	29	34	36	37	30	39	40	30	26	24	25	31	29	32	44	41	41	45	36.8	
Mifflintown.....	Maximum ...	60	70	77	69	78	80	76	65	67	75	78	78	69	74	76	74	74	77	78	64	52	52	59	68	72	75	72	65	67	61	55	69.6	
	Minimum ...	45	34	40	40	44	51	43	43	31	31	36	37	31	29	31	39	40	33	53	49	36	36	24	36	35	32	36	46	48	42	45	38.6	
Philadelphia.....	Maximum ...	62	72	76	72	74	80	74	63	66	71	75	74	62	67	69	68	74	71	70	63	51	54	59	67	70	73	72	68	59	60	68.0		
	Minimum ...	47	47	54	48	55	56	59	48	43	46	54	54	45	47	51	50	52	48	56	43	39	40	37	45	51	52	54	58	53	49	45	49.3	
Pittsburgh.....	Maximum ...	58	72	80	77	79	75	70	62	67	73	76	74	67	74	68	73	70	73	72	60	43	50	55	61	67	69	64	65	69	71	68	67.8	
	Minimum ...	41	46	46	56	58	57	49	49	40	40	41	46	48	44	45	46	51	44	54	41	35	37	31	40	38	38	46	52	44	44	49	45.0	
Reading.....	Maximum ...	58	71	75	68	76	80	74	61	65	74	76	73	64	68	71	70	72	70	72	63	48	51	59	68	71	74	73	71	70	57	55	67.7	
	Minimum ...	46	41	46	44	55	58	51	46	40	43	46	50	41	39	44	44	48	41	51	41	37	38	35	41	43	41	42	52	53	50	46	44.9	
Scranton.....	Maximum ...	58	69	77	72	76	78	66	52	62	69	72	64	58	64	68	69	59	66	62	53	42	43	57	66	68	68	69	68	68	55	52	63.4	
	Minimum ...	41	37	43	45	47	53	46	45	38	37	45	42	34	32	38	42	40	31	39	37	37	37	37	34	37	37	34	43	46	45	47	40.2	
Selinsgrove.....	Maximum ...	68	70	76	72	76	80	72	60	65	73	75	72	67	68	72	73	68	74	69	69	50	49	60	70	72	74	67	67	69	60	54	68.1	
	Minimum ...	43	34	41	41	46	54	44	44	44	32	36	36	31	30	36	38	39	34	39	37	36	33	29	31	34	31	34	43	46	37	47	38.1	
Somerset.....	Maximum ...	65	73	70	80	79	75	74	65	80	76	81	72	70	74	71	70	72	70	73	74	45	66	57	51	64	70	63	60	65	68	68	69.2	
	Minimum ...	47	38	38	55	45	52	40	44	29	28	54	35	51	31	36	36	40	38	43	42	28	40	22	33	30	34	40	44	50	50	35	39.6	
State College.....	Maximum ...	55	67	72	69	76	75	64	58	58	67	66	66	62	70	62	69	63	72	65	61	42	45	56	61	67	68	66	63	62	56	55	63.2	
	Minimum ...	39	39	37	42	45	56	40	40	30	30	35	38	33	31	38	40	45	32	47	42	29	31	25	36	40	37	38	45	47	47	45	38.4	
Towanda.....	Maximum ...	57	70	77	72	80	78	65	64	59	67	70	65	59	64	66	67	55	66	61	52	41	42	57	63	68	68	68	68	65	54	57	63.4	
	Minimum ...	40	32	40	41	46	55	43	43	33	34	35	38	31	28	32	37	38	31	38	31	34	37	32	27	34	29	26	34	39	41	47	36.3	
Uniontown.....	Maximum ...	59	73	79	76	79	74	66	70	71	74	76	68	72	70	74	74	73	75	65	49	48	54	62	65	69	62	63	68	75	71	68	8.8	
	Minimum ...	40	37	40	49	50	55	45	52	39	33	32	37	40	34	39	40	45	41	54	49	29	39	29	30	31	31	43	48	38	31	47	40.2	
Warren.....	Maximum ...	56	70	70	77	80	75	64	58	65	74																							

U. S. DEPARTMENT OF AGRICULTURE WEATHER BUREAU.
CHARLES F. MARVIN, Chief.
JAN 7 1925
CLIMATOLOGICAL DATA.
UNIVERSITY OF ILLINOIS

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXIX. NOVEMBER, 1924. No. 11

GENERAL SUMMARY.

The drought, which characterized October's weather, extended into November and conditions were not permanently relieved until near the close of the second week, when light to moderately heavy rains occurred over most of the State. Light rains were reported generally on the 1st, but they were insufficient, in most cases, to break the drought. Heavy rains again fell on the 22d, and by the end of the month normal conditions again prevailed.

The temperature, while averaging close to normal for the month as a whole, registered below zero at several stations in the northern part of the State during the short, but intense, cold spell that covered the entire State from the 16th to 19th, inclusive. West Bingham, in Potter county, recorded a minimum of 9° below zero, a new record for November for the State, on the 18th. The previous low record was -5°, established in 1917. Several stations in northern counties reported record-breaking November temperatures during this cold period.

The month as a whole was favorable for outdoor work and pastures were reported in fair to good condition at the close of the month. Winter grains were reported generally in good condition. No damaging storms occurred during the month..

F. H. A.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 81 stations, was 40.7°, or 0.1° below the November normal. The highest mean was 46.4° at Philadelphia and the lowest was 31.8° at Freeland. The highest temperature recorded during the month was 78° at Lancaster and Lock Haven on the 7th, and the lowest was -9° at West Bingham on the 18th. The greatest daily temperature range was 48° at Huntingdon on the 20th.

PRECIPITATION.

The average precipitation for the State, as shown by the records from 122 stations, was 1.54 inches, or 1.11 inches below the November normal. The greatest monthly amount at any station was 3.29 at Gouldsboro, and the least was 0.56 inch at Mifflintown. The greatest amount recorded in any 24 consecutive hours was 2.35 inches at Gordon on the 22d. The average snowfall for the State was 2.9 inches. The greatest monthly snowfall reported was 10.7 inches at Greensburg. The greatest 24-hour snowfall was 7.0 inches at Elk Lick on the 30th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Total move- ment, in miles	Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Velocity, in miles per hour			
				8 a m	8 p m		Average	Highest	Direction	Date
Erie.....	101.9	294.9	35	72	71	13,723	19.1	46	nw.	16
Harrisburg.....	170.3	299.4	57	72	58	4,024	5.6	39	nw.	16
Philadelphia.....	178.7	299.4	60	66	58	6,894	9.6	36	nw.	16
Pittsburgh.....	139.9	297.0	47	74	66	8,906	12.4	46	nw.	16
Reading.....	169.0	299.0	57	76	74	3,860	5.4	26	nw.	16
Scranton.....				86	78	5,616	7.8	38	w.	17

* For any five-minute period.

COMPARATIVE DATA FOR NOVEMBER

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	42.2	79	4	3.37	6.22	1.99	9	7	14
1889.....	41.8	73	10	6.72	10.16	2.72	5	8	17
1890.....	41.8	78	10	1.49	4.29	0.78	9	10	11
1891.....	39.7	76	6	2.65	5.70	1.09	9	8	13
1892.....	39.0	80	10	4.34	7.08	1.61	6	8	16
1893.....	39.2	68	-4	2.93	5.69	1.16	8	11	11
1894.....	38.2	74	6	2.50	3.64	0.74	10	9	12
1895.....	42.9	78	6	2.48	5.73	0.97	10	8	11
1896.....	46.0	83	12	3.55	8.05	0.82	8	9	13
1897.....	41.6	76	2	5.28	7.04	2.37	6	8	16
1898.....	40.0	73	2	4.03	7.34	1.44	8	9	13
1899.....	41.5	72	8	2.66	4.86	0.61	10	8	12
1900.....	43.5	79	7	4.10	6.92	1.67	6	9	15
1901.....	36.0	76	7	2.56	5.00	1.23	7	8	15
1902.....	47.3	78	9	1.53	3.02	0.50	10	8	12
1903.....	36.9	78	0	2.18	5.33	0.88	11	8	11
1904.....	38.8	79	-4	1.14	3.31	0.14	10	9	11
1905.....	39.1	68	5	2.47	3.72	1.08	11	8	11
1906.....	41.5	80	9	1.48	3.08	0.54	12	6	12
1907.....	39.8	70	4	3.60	7.52	1.05	13	8	9
1908.....	41.2	75	-2	0.90	1.97	0.20	12	8	10
1909.....	46.4	80	15	1.40	3.97	0.26	12	8	19
1910.....	36.8	68	9	2.45	5.63	0.33	4	7	10
1911.....	37.8	77	7	2.84	5.68	0.99	7	7	16
1912.....	43.0	81	7	2.17	4.83	0.61	10	8	12
1913.....	43.9	79	10	3.05	6.34	1.43	10	5	15
1914.....	40.6	81	-2	1.76	4.27	0.57	12	9	9
1915.....	42.1	79	13	2.28	5.32	0.22	10	9	11
1916.....	41.3	79	4	2.27	7.97	0.88	13	6	11
1917.....	37.6	69	-5	0.63	1.37	0.12	14	7	9
1918.....	42.1	76	11	2.03	4.07	0.44	12	6	12
1919.....	41.2	76	11	5.35	8.45	1.84	11	7	12
1920.....	40.3	75	5	3.54	6.42	1.85	7	7	16
1921.....	42.3	80	3	5.75	9.14	3.20	5	7	18
1922.....	42.9	73	12	1.21	4.52	0.23	10	7	13
1923.....	40.7	70	10	2.83	6.84	1.55	12	5	13
1924.....	40.7	78	-9	1.54	3.29	0.56	12	8	10

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	2.1	5.4	24	1.3	19	18
Phillipsburg.....	Delaware.....	1.0	4.0	25	0.1	13	22
Mauch Chunk.....	Lehigh.....	3.7	4.4	23	3.4	11	12
Wilkes-Barre.....	Susquehanna.....	3.2	6.6	25	2.4	14	20
Williamsport.....	Susquehanna.....	0.5	0.9	24	0.2	19	20
Harrisburg.....	Susquehanna.....	3.6	4.3	27	3.4	6	17
Freepert.....	Allegheny.....	1.5	1.8	24	1.2	6	22
West Newton.....	Youghiogheny.....	0.3	1.0	24	0.0	1	20
Lock No. 4.....	Monongahela.....	12.9	14.1	25	12.5	13	31
Pittsburgh.....	Ohio.....	7.0	7.5	25	6.7	5	22
Beaver Dam.....	Ohio.....	7.5	7.9	6	5.0	15	30

Climatological Data for November, 1924																				
Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr					Precipitation, in inches				No. of days				Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear			Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	12	40.6	.....	73	7	11	19	38	2.50	+0.10	1.29	T.	7	13	13	4	John A. Frick.
Altoona.....	Blair.....	1,615	37	39.9	-0.9	76	7	9	18	36	1.61	-0.30	0.97	7.0	8	11	7	12	Lewis E. Biller.	
Bethlehem.....	Northampton.....	295	40	.....	.....	74 ^a	7	16 ^a	19	40 ^a	2.26	-0.85	1.94	T.	6	.....	.....	.....	R. H. Brennecke, Jr.
Biglerville.....	Adams.....	652	2	43.0 ^a	.....	74 ^a	7	13 ^a	19	40 ^a	1.60	.....	1.34	0.2	4	11	10	9	R. C. Walton.
Bustleton.....	Philadelphia.....	125	5	44.0	.....	73	2	16	18	35	2.00	.....	1.41	T.	7	10	7	13	Experiment Station
Catawissa.....	Cumberland.....	467	57	42.2	+1.5	74	7	14	19	39	1.57	-1.62	1.13	1.0	5	19	3	8	Prof. C. E. Miller.	
Center Hall.....	Columbia.....	520	27	41.8	-0.6	75	7	8	18	37	1.56	-1.15	1.37	0.5	5	16	6	8	H. H. Yetter.	
Chambersburg.....	Center.....	1,272	28	42.6	+2.7	71	6	7	18	40	1.14	-0.88	0.38	T.	4	15	11	4	S. W. Smith.	
Clearfield.....	Franklin.....	580	24	41.2	-0.2	73	7	14	19	41	1.56	-1.09	1.20	T.	5	13	9	8	William B. Spear.	
Coatesville.....	Clearfield.....	1,120	14	40.4	-0.3	76	8	15	17	41	1.76	-1.08	0.57	3.3	9	10	5	15	E. W. Hess.	
Colebrook.....	Chester.....	380	36	39.9	-3.0	70	2	12	18	37	2.07	-1.12	1.35	1.1	8	15	7	8	Prof. W. T. Gordon.	
Emporium.....	Lebanon.....	560	14	41.2	.....	72	7	10	19	35	1.58	-1.04	1.32	0.8	6	12	8	10	Wm. A. Rorer.
Ephrata.....	Cameron.....	1,050	36	37.4	-1.8	71	7	1	18	35	1.15	-1.56	0.30	1.8	6	7	10	13	T. B. Lloyd.	
Freeland.....	Lancaster.....	380	23	45.3	+0.9	72	7	15	18	35	1.00	-1.39	0.84	T.	4	16	7	7	E. K. Hershey.	
George School.....	Luzerne.....	1,970	9	31.8	.....	62	7	3	17	30	2.65	.....	1.86	1.5	10	12	6	12	Theo. Reichmann.
Gettysburg.....	Bucks.....	190	17	43.3 ^b	+0.7	74 ^a	2	13 ^b	19	41 ^a	1.74	-0.97	1.18	T.	6	25	3	2	Prof. N. W. Swayne	
Gordon.....	Adams.....	600	50	43.6	+2.3	76	7	14	19	38	1.82	-0.85	1.45	1.0	4	13	14	3	Col. E. B. Cope.	
Gouldsboro.....	Schuylkill.....	840	20	39.2	+0.2	72	7	5	19	37	2.61	-0.18	2.35	T.	4	16	7	7	Capt. J. G. Johnson.	
Hamburg.....	Wayne.....	1,875	.....	36.1	.....	65	6	8	17	32	3.29	+0.46	1.95	3.4	8	11	8	11	Gustav Holtz.
Hanover.....	Berks.....	535	31	39.9	-2.3	70	7	10	19	37	1.44	-1.42	1.31	T.	3	17	6	7	State Sanatorium.	
Harrisburg.....	York.....	600	20	44.3	+0.1	74	2	17	19	30	1.50	-0.43	0.98	T.	5	22	2	6	Mrs. Mabel C. Wolcott.	
Hawley.....	Dauphin.....	361	54	43.0	+0.2	74	7	18	19	31	1.63	-0.72	1.32	0.6	5	10	7	13	U. S. Weather Bureau.	
Holtwood.....	Wayne.....	900	5	38.0	.....	71	7	5	19	41	2.37	.....	1.32	T.	6	15	3	12	J. S. Pennell.
Huntingdon.....	Lancaster.....	200	9	43.2	.....	72	4	19	18	34	1.53	.....	0.90	3.0	6	13	2	15	H. W. Law, C. E.
Jersey Shore.....	Huntingdon.....	650	36	40.6	-0.9	76	7	7	18	48	1.61	-0.65	0.80	1.2	8	16	4	10	Prof. W. J. Swigart.	
Kennett Square.....	Lycoming.....	570	4	40.2	.....	74	7	10	18	36	1.20	.....	0.51	0.5	7	13	10	7	C. R. McCullough.
Lancaster.....	Chester.....	340	52	.....	.....	74	7	11	18	43	.....	.....	0.94	T.	8	22	5	3	W. P. Mercer.
Lawrenceville.....	Lancaster.....	255	36	43.3	+0.2	78	7	11	18	43	1.24	-1.18	0.94	T.	8	22	5	3	Supt. of Water Works.	
Lebanon.....	Tioga.....	1,000	26	39.1 ^a	+0.4	72 ^a	7	4 ^a	18	35 ^a	1.05	-1.09	0.50	4.0	6	8	7	15	C. P. Darling.	
Lewisburg.....	Lebanon.....	469	83	42.0	-0.2	75	7	14	19	39	1.65	-1.24	1.29	1.2	7	18	7	5	S. B. Benzing.	
Lock Haven.....	Union.....	450	49	41.2	+2.1	74	7	11	18	40	1.72	-0.79	1.16	0.9	6	10	12	8	Prof. W. G. Owens.	
Lykens.....	Clinton.....	580	35	40.6	-1.3	78	7	8	18	39	1.07	-1.37	0.54	T.	5	.....	.....	.....	Charles Dunn.
Mauch Chunk.....	Dauphin.....	680	9	41.3	.....	74	7	7	18	46	2.16	.....	1.84	T.	5	22	5	3	Susquehanna Collieries Co.
Mifflintown.....	Carbon.....	600	33	41.2	+0.6	73	7	11	19	38	2.24	-1.09	1.98	0.2	7	15	7	8	R. K. Wintermute.	
Montrose.....	Junata.....	445	20	41.2	+0.6	75	7	10	18	43	0.56	-1.28	0.37	0.3	4	12	4	14	Wellington Smith.	
Mt. Pocono.....	Susquehanna.....	1,720	21	35.9	-1.0	66	7	0	18	35	1.29	-1.11	0.60	2.0	6	12	5	13	Silas Jagger.	
Muncy Valley.....	Monroe.....	1,658	21	.....	.....	69	7	1	18	33	2.28	-0.14	1.65	T.	5	6	11	13	Cecil J. Hoskinson.
Narberth.....	Sullivan.....	1,045	12	38.2	.....	69	7	1	18	33	2.28	-0.14	1.65	T.	5	6	11	13	A. H. Boatman.
Neshaminy Falls.....	Montgomery.....	300	5	43.0	.....	72	2	16	19	33	2.17	.....	1.48	0.1	9	12	6	12	Charles Decker.
Palmerton.....	Bucks.....	60	35	40.9	.....	74	2	10	19	40	1.70	.....	1.05	T.	9	15	6	9	North Springfield Water Co.
Philadelphia (a).....	Carbon.....	398	7	40.0	.....	74	7	5	18	44	1.78	.....	0.92	1.0	6	14	10	6	F. G. Breyer.
Philadelphia (d).....	Philadelphia.....	117	53	46.4	+0.7	73	2	22	17	28	1.75	-1.31	1.20	T.	7	9	7	14	U. S. Weather Bureau.	
Phoenixville.....	Philadelphia.....	12	8	45.4	.....	73	2	21	17	27	1.81	.....	1.20	T.	5	.....	.....	.....	Commandant, Navy Yard.
Quakertown.....	Chester.....	100	13	40.7	.....	67	7	12	18	33	2.30	.....	1.47	T.	8	.....	.....	.....	North Springfield Water Co.
Reading.....	Bucks.....	496	39	40.0	-1.0	70	7	5	19	39	2.19	-0.97	1.72	T.	5	14	9	7	John E. Benner.	
Scranton.....	Berks.....	325	54	43.6	+1.1	74	7	19	18	27	1.44	-1.68	1.25	0.7	6	13	11	6	U. S. Weather Bureau.	
Selinsgrove.....	Lackawanna.....	805	29	40.9	+0.4	71	7	14	19	32	1.63	-0.66	1.37	1.7	7	7	11	12	U. S. Weather Bureau.	
Shawmont.....	Snyder.....	455	34	41.4	-0.1	73	7	10	18	42	1.65	-1.03	1.40	T.	3	18	7	5	Prof. Thomas C. Houtz.	
State College.....	Philadelphia.....	51	28	44.0	.....	67	2 ^a	18	19	29	1.82	-1.06	1.21	T.	5	12	9	9	W. S. Guiles.
Towanda.....	Center.....	1,217	39	39.4	-0.3	74	7	9	18	36	0.87	-1.43	0.28	1.6	8	7	17	6	C. A. Kern.	
Wellsboro.....	Bradford.....	754	29	38.9	-0.4	72	7	9	19	37	1.31	-0.69	1.01	1.2	5	8	6	16	Hiram E. Bull, C. E.	
West Chester.....	Tioga.....	1,419	58	36.5	-1.0	71	7	0	18	36	0.71	-1.92	0.35	3.5	6	19	2	9	George W. Hill.	
Williamsport.....	Chester.....	455	86	42.2	-0.6	70	2	16	19	30	2.01	-1.62	1.42	0.5	7	17	6	7	Arthur M. Hay.	
York.....	Lycoming.....	521	37	40.8	0.0	74	7	11	18	36	1.38	-1.02	0.98	T.	5	9	9	12	George A. Beck.	
York.....	York.....	400	36	42.8	+0.3	75	7	11	19	46	1.15	-1.40	0.85	T.	4	17	9	4	York Water Co.	
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	31	42.8	.....	75	7	16	19	40	1.46	-0.88	0.58	2.1	11	9	6	15	U. S. Engineer.
Bradford.....	McKean.....	1,427	9	34.8	.....	72	7	2	18	40	1.55	.....	0.38	7.2	10	11	8	11	City Engineer.
Bradys Bend.....	Armstrong.....	930	6	36.2	.....	72	6 ^a	2	18	46	1.42	.....	0.30	7.9	10	6	11	13	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	33	34.6	-3.0	70	7	1	18	42	0.96	-1.88	0.21	5.0	8	18	8	4	John Fawcett.	
Claysville.....	Washington.....	1,150	20	42.4	+0.9	74	7	15	19	36	1.98	+0.04	0.49	2.9	10	14	4	12	J. L. Melvin.	
Corry.....	Erie.....	1,430	12	38.6	.....	72	7	2	18	41	2.06	.....	0.37	10.0	16	11	7	12	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	27	42.3	+0.4	75	5	16	19	46	1.72	-0.85	0.51	2.5	8	7	16	7	Wm. A. Huff, Jr.	
Ebensburg.....	Cambria.....	2,000	6	37.8	.....	71	7	10	18	30	.....	.....	0.74	.....	.....	11	11	8	D. H. Jones.
Elk Lick.....	Somerset.....	2,680	7	38.2	.....	69	6 ^a	12	17	45	1.55	.....	0.70	9.0	5	12	5	13	J. S. Stevanus.
Franklin.....	Venango.....	957	51	38.1	-1.5	72	6 ^a	7	18	45	0.99	-2.02	0.27	2.5	9	12	8	10	Robert A. Fergus.	
Greensburg.....	Westmoreland.....	1,150	16	.....	.....	73	5 ^a	.....	.....	40 ^a	1.66	-0.							

Daily Precipitation for November, 1924

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown	Lehigh									T.			.08	.05		.06							1.29	.87	T.					.13	.02	2.50	
Altoona	Juniata	.14											.97	.07									.23	.03	.08			T.		.02	.07	1.61	
Ansonia	W. Br. Susq.	.04		T.						T.		T.		.22			.03						.28	.03	.04	T.			.02	.07	T.	0.73	
Bethlehem	Lehigh												*	.12		*							1.94							*	.20	2.26	
Biglerville	Susquehanna	.09								T.			.05	.12		T.							1.34							T.	*	1.60	
Bloersville	Lower Susq.	*											.25										1.55							T.	.06	1.85	
Bustleton	Lower Del.					T.							.02	.08			T.	.03					1.41	.06	.01					.39		2.00	
Carlisle	Lower Susq.	.11								T.		T.		.19									1.13		.02			T.		T.	.12	1.57	
Catawissa	N. Br. Susq.	.01										T.	.13			T.						.05	1.32		.02					T.	.05	1.56	
Center Hall	Susquehanna	.18											.34			T.							.38						.24		T.	1.14	
Chambersburg	Potomac	.13											.05	.15	.03								1.20							T.	T.	1.56	
Clearfield	W. Br. Susq.	.33	T.					.04					.15	.57	.02	.03							.35	T.	.24	T.		T.		T.	.03	1.76	
Coatesville	Lower Del.												.06	.02	.27	.02							1.35		.02					.32	.01	2.07	
Colebrook	Lower Susq.	.01											.01	.06	.12	T.							1.32							T.	.06	1.58	
Conshohocken	Schuylkill									T.		.03			.19	.03							1.70							.52	T.	2.47	
Cresson	Juniata												.40			.08							.20	.04	.07	.03	.02			.05	.20	1.09	
Doylstown	Lower Del.												.02	.02		T.							1.42	T.	.05			.02		.44	T.	1.98	
Emporium	W. Br. Susq.	.13							T.				.27	.07		T.							.28		.30	T.		T.	T.	.10	T.	1.15	
Ephrata	Lower Susq.												.02	.10	T.								.84							.04	T.	1.00	
Forest City	N. Br. Susq.	.05											.27										1.91	.09	.05					.12		2.49	
Freeland	Lehigh	.04		T.							T.		.03	.15	T.		.03					*	1.86	.42	.03	T.	T.			.06	.03	2.65	
George School	Lower Del.						T.			T.			.02	.03	.10								1.18		.03					.38		1.74	
Gettysburg	Potomac	.05											.02	.30									1.45									1.82	
Girardville	Susquehanna	.05										.01	T.	.14		T.							.50	1.82		.01				.02	.04	2.59	
Gordon	Lower Susq.												.18			T.							2.35	.04						T.	.04	2.61	
Gouldsboro	Lehigh					.02							.06	.12					.09				1.95	.82						.05	.18	3.29	
Graterford	Schuylkill									T.				.02	.11	.02		.05					.72							.23	.02	1.04	
Hamburg	Schuylkill												.02	.11	.02								1.31							T.	T.	1.44	
Hanover	Lower Susq.	.02								T.				.01	.48	.01							.98							T.	T.	1.50	
Harrisburg	do.	.06								T.		T.	T.	.20			T.						1.14	T.						T.	.05	1.63	
Hawley	Upper Del.												.05	T.			T.						.78	1.32	.05					.10	.07	2.37	
Holtwood	Lower Susq.					T.	.03						T.		.37								.90	.03						.15	T.	.05	1.53
Huntingdon	Juniata	.08											.52	.04	.03								.80	.02	.05	T.		T.		.07		1.61	
Jersey Shore	W. Br. Susq.	.20											.35	.03									.51	.01	.05					.05		1.20	
Kennett Square	Delaware												.01	.05	.10		.02						.94	.08	.02					.02		1.24	
Lancaster	Lower Susq.												.02	.05			T.						1.68	.31						.02		2.11	
Lansford	Lehigh												.20			T.							.50		.10	T.				.10	.05	1.05	
Lawrenceville	N. Br. Susq.	.10	T.										.22			.02							1.29	.05	.01					.04		1.65	
Lebanon	Lower Susq.									T.			.02	.21			T.						1.16	.13	.02					.07		1.72	
Lewisburg	W. Br. Susq.	.13											T.	.21		T.							1.16	.13	.02					.07		1.72	
Lloyd	W. Br. Susq.													.40	.03								.54		.05					.05		1.07	
Lock Haven	W. Br. Susq.												T.	.19		T.							1.84		.01					.02		2.16	
Lykens	Susquehanna	.10											.03	.05	.04								1.98	.05						.06	.03	2.24	
Mauch Chunk	Lehigh	T.											.03	.05	.04											.02				.02		0.56	
Millintown	Juniata	.15											.37													.02					.02		1.29
Montrose	N. Br. Susq.	.15											.20			.10							.60	.14						.10		1.29	
Mount Pocono	Upper Del.																																
Mount Union	Juniata	.20											.33		.05								.83							T.	.10	1.51	
Muncy Valley	W. Br. Susq.	.09	T.										.40	.04	.05								1.65	.10	T.	T.				T.	T.	2.28	
Narberth	Lower Del.	T.	.01				T.						.06	.01	.13	.05							1.46	.02	.02					.41	T.	2.17	
Neshaminy	Lower Del.	.01											.03	.01	.01	T.							.15	1.05	.02	T.				.32	.10	1.70	
Palmerton	Lehigh									T.			.03			T.							.19	.54	.92					.08	.02	1.78	
Philadelphia (a)	Lower Del.												T.	T.	.15	.02							.02	1.18		.01				.35	.02	1.75	
Philadelphia (d)	do.												T.	T.	.15	T.							.40	.80						T.	.37	.09	1.81
Phoenixville	Schuylkill												.10	.03	.16	.11							1.47	.06	.03					.34	T.	2.30	
Pottstown	do.									T.			.06	.02		T.							1.22	.09	T.					.16		1.55	
Pottsville	do.	.03											.01	.13		.04							1.80		T.					.02	.06	2.09	
Quakertown	Lower Del.									T.			.08	.05									1.66	.06						.34		2.19	
Reading	Schuylkill												.02</																				

Daily Precipitation for November, 1924—Continued from page 43

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Irwin.....	Youghiogheny	.05							T.					.06	.70		T.						.19	.01	.28					.05	.04	1.38	
Johnstown.....	Conemaugh.....	.07						.01	.02	T.				.75	.27		.05	.01					.01	.19	.01	.05		.02	T.	.10	.20	1.76	
Ketner.....	Allegheny.....	.16							.08					.09	.29		.08						.09	.05	.20	.03		.03	.02	.11	.09	1.32	
Linesville|||	Beaver.....	.05			T.				.11		.01			.01	.23			.10					.37	.10		.05			.02	.10		1.15	
Lock No. 4|||	Monongahela.....	.08							.02						.73			.02					.19	.08	.30	.03		T.		.05	.02	1.52	
Lycippus.....	Conemaugh.....	.19							.02					.91		T.							T.	.20				T.		.08	.08	1.48	
Martin.....	Monongahela.....	.07							.43	.02				.46		.10	.03						.17	.05	.03	.03			.02	.02	1.43		
New Castle|||	Beaver.....													.25		T.		T.				.30	.01	.12				.01	.22	.05	0.96		
Newell.....	Monongahela.....													.46								.16	.02		.20					.12	0.96		
Parkers Landing|||	Allegheny.....	.10							.03					.25			.05						.28	T.	.05	T.				.40	.05	1.21	
Pennline|||	Beaver.....	.09							.09					.28			.08						.33	.15	.04		.02		T.	.30	1.38		
Pittsburgh***	Ohio.....							.02					T.	.80	.01		T.					.22	.01	.05	.18	T.		T.	.04	.03	.03	1.39	
Ridgway†	Allegheny.....	.26							.12					.40			.12							.27						.40	.10	1.15	
Saltsburg|||	Conemaugh.....	.13							.04					.61			.02						.17	.04	.20	.05		T.		.05	.04	1.35	
Saegertown.....	Allegheny.....								.12					.23		T.	.10					.10	.20	T.								0.75	
Sharon|||	Beaver.....								.07						.32		.03						.16		.05				T.	.06	0.69		
Somerset.....	Youghiogheny.....													.28	.30		.05						*		.24					.06	.40	1.33	
Springdale|||	Allegheny.....	.10							.07					T.		.63		.06					.25	.09	.23				.12		1.55		
Uniontown.....	Monongahela.....	.10							.09	T.				.35	.52	.03	.06						.25	.12	.16				T.	.12	1.80		
Unity Reservoir†	Youghiogheny.....	.18							.04					.44	.50								.27	.28					.05	.25	2.01		
Vandergrift.....	Conemaugh.....	.08							.04						.05		.03						.22	.24					.08	.14	0.88		
Warren.....	Allegheny.....							.20						.14			.20						.08	.04	.04	.06		.02	.15	.19	1.22		
Washington.....	Ohio.....							.08	T.					T.	.67		.02	T.				.33	.02	.14	.12	T.		T.	.03	.03	.20	1.65	
Waynesburg|||	Monongahela.....											.01	T.	.35			T.						.57	.07	.19			T.	.05	.10	1.34		
Westford|||	Beaver.....	T.							T.						.40			.12					.32	.10	.05			T.	T.	.15	1.14		
West Newton|||	Youghiogheny.....	.07													1.05			T.					.22	.02	.25				T.	T.	1.61		
Lake Drainage.																																	
Erie***	Lake Erie.....		T.					.09	T.				T.	.05	.15	.06		.02	T.	T.			.22	.07	.03	.24	T.		T.	.01	.49	.05	1.48
West Bingham.....	Genesee.....	.10	T.						T.						.35		.40						.04	.10	.20	T.				.10	.05	1.34	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Post Office address:—Greensburg. ‡ Daily amounts inconsistent.

Daily Temperatures for November, 1924

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum ...	68	46	49	66	59	65	73	52	39	51	52	62	59	53	46	49	31	34	40	50	58	52	45	49	42	41	46	47	40	32	.....	49.9
	Minimum.....	46	41	39	36	27	34	41	39	34	34	33	39	36	40	32	31	32	18	11	12	22	31	41	36	33	26	26	28	28	22	.....	31.2
Altoona.....	Maximum.....	65	61	51	63	57	72	76	67	40	48	53	59	56	56	40	44	33	32	40	58	56	51	41	36	36	47	41	41	35	24	.....	49.3
	Minimum.....	45	42	35	35	30	36	49	37	33	35	34	35	31	40	29	33	15	9	13	26	35	41	32	30	27	21	23	21	24	18	.....	30.5
Catawissa.....	Maximum.....	68	72	64	71	61	69	75	51	53	52	53	67	63	52	45	52	35	39	44	55	61	45	47	45	37	46	46	51	33	31	.....	52.8
	Minimum.....	43	35	33	34	26	45	44	41	33	35	27	35	30	40	30	28	15	8	9	19	46	36	34	33	31	25	24	26	29	29	.....	30.8
Chambersburg.....	Maximum.....	67	70	55	71	59	67	73	62	45	54	52	62	59	58	44	50	38	35	40	55	56	51	44	48	43	43	45	47	38	31	.....	52.1
	Minimum.....	41	36	37	30	31	34	36	44	38	29	27	33	36	43	31	32	20	16	14	19	26	38	36	33	35	20	21	26	28	23	.....	30.4
Claysville.....	Maximum.....	69	62	57	66	71	73	74	70	55	62	69	59	55	60	43	43	34	32	37	53	58	56	42	38	36	47	43	42	38	26	.....	52.3
	Minimum.....	45	41	23	46	35	55	50	38	33	27	37	50	40	38	30	33	18	19	15	27	33	39	32	32	26	20	31	27	21	17	.....	32.6
Clearfield.....	Maximum.....	67	67	55	64	61	73	74	76	64	58	60	61	58	56	44	42	35	39	41	57	53	55	44	37	37	46	41	42	35	27	.....	52.3
	Minimum.....	40	36	35	28	25	32	40	38	33	26	34	31	27	28	27	16	16	15	12	16	26	27	41	35	32	16	27	21	25	17	.....	28.6
Coatesville.....	Maximum.....	65	70	50	67	56	65	68	59	40	53	52	61	58	54	44	48	38	32	37	53	55	55	45	49	43	41	42	45	40	33	.....	50.6
	Minimum.....	43	33	32	31	27	45	38	39	36	30	27	47	35	35	27	30	15	12	12	17	25	40	37	30	27	18	20	22	24	21	.....	29.2
Emporium.....	Maximum.....	62	58	49	48	57	68	71	63	41	49	54	60	53	53	43	41	23	29	37	53	55	50	40	38	35	42	41	37	32	25	.....	46.9
	Minimum.....	40	40	36	32	26	33	39	36	32	32	27	35	30	37	30	23	12	1	15	23	25	40	36	32	28	18	20	21	22	20	.....	28.0
Erie.....	Maximum.....	65	57	54	55	67	72	73	40	49	56	65	58	53	46	41	42	28	33	40	55	58	48	41	40	32	46	41	35	30	29	.....	48.1
	Minimum.....	49	41	39	40	36	60	40	30	29	36	42	43	32	40	36	22	21	22	28	32	44	41	35	32	27	27	32	29	23	18	.....	34.2
Greensburg.....	Maximum.....	65	61	53	65	73	73	73	69	46	62	67	63	59	69	55																.....	.....
	Minimum.....	43	42	29	43	33	52		37	37	26	35	50	37	40	35																.....	.....
Grove City.....	Maximum.....	67	58	51	59	69	72	72	69	54	56	59	62	53	48	43	39	32	31	39	52	52	43	42	36	33	46	40	36	33	26	.....	49.1
	Minimum.....	43	40	30	41	30	49	54	36	30	36	32	31	25	29	30	29	18	11	20	26	34	39	32	32	24	20	33	28	20	23	.....	30.8
Harrisburg.....	Maximum.....	66	69	52	68	57	68	74	63	40	53	52	63	53	54	44	49	31	32	41	54	56	54	45	47	42	44	42	46	38	31	.....	50.9
	Minimum.....	43	44	40	39	38	49	43	40	38	34	35	48	43	41	35	28	22	21	18	25	32	45	37	35	34	27	28	34	28	25	.....	35.0
Indiana.....	Maximum.....	68	64	40	65	70	72	72	70	42	57	63	61	58	47	55	42	34	34	39	56	57	57	43	40	37	44	44	42	43	28	.....	51.8
	Minimum.....	46	41	31	38	32	42	52	37	35	35	36	38	34	40	35	27	17	13	15	24	28	40	32	30	27	15	26	22	24	14	.....	30.9
Johnstown.....	Maximum.....	65	61	54	65	64	73	74	60	43	52	60	62	56	60	43	44	31	35	39	56	58	48	40	40	36	46	46	42	38	27	.....	50.6
	Minimum.....	41	41	36	39	33	37	46	39	38	36	29	39	38	38	34	28	20	19	19	29	31	40	34	34	26	25	28	28	23	20	.....	32.3
Lancaster.....	Maximum.....	72	72	69	74	66	70	78	72	55	58	68	67	63	62	69	53	48	43	44	58	56	55	52	53	49	50	47	51	46	38	.....	58.3
	Minimum.....	44	32	30	32	26	35	35	42	35	35	25	46	28	44	26	28	18	11	11	16	20	33	35	33	28	18	20	19	24	19	.....	28.3
Mifflintown.....	Maximum.....	68	67	53	67	60	66	75	67	44	54	52	62	58	55	45	47	43	35	42	61	55	52	47	45	43	45	42	47	39	29	.....	52.2
	Minimum.....	44	32	36	28	30	33	36	42	35	34	24	38	28	43	31	32	20	10	13	18	25	44	40	33	32	22	22	27	28	26	.....	30.2
Philadelphia.....	Maximum.....	70	73	53	72	62	65	69	62	44	54	57	63	62	58	49	52	34	35	41	52	60	60	49	53	48	45	48	48	42	35	.....	53.8
	Minimum.....	51	47	41	44	45	51	54	43	38	41	47	50	47	46	36	33	22	24	23	30	39	44	41	39	35	33	34	37	31	26	.....	39.1
Pittsburgh.....	Maximum.....	63	57	55	62	71	73	73	48	51	60	65	61	60	57	44	41	30	34	38	55	58	47	38	39	32	47	44	40	32	26	.....	57.0
	Minimum.....	47	39	35	44	41	60	48	39	39	39	41	44	42	40	36	25	22	23	26	31	44	44	37	34	32	26	26	35	32	22	19	35.7
Reading.....	Maximum.....	67	71	51	68	58	67	74	61	40	54	62	69	59	52	45	50	33	34	42	54	58	56	46	49	43	43	44	47	40	33	.....	57.8
	Minimum.....	47	44	38	41	36	52	48	39	37	38	37	48	39	38	34	27	20	19	20	28	35	44	44	38	37	32	32	37	32	31	.....	35.3
Scranton.....	Maximum.....	63	64	48	60	60	66	71	65	37	52	53	60	57	48	44	46	26	28	38	49	61	56	42	47	38	41	43	44	37	28	.....	49.0
	Minimum.....	47	40	36	41	30	50	46	33	32	36	33	47	37	40	37	21	15	15	14	26	34	42	37	35	30	26	31	30	25	19	.....	32.8
Selinsgrove.....	Maximum.....	67	66	53	68	59	65	73	68	42	53	49	70	61	53	44	42	39	35	41	56	66	62	54	48	41	43	43	48	39	39	.....	52.6
	Minimum.....	42	37	36	37	28	45	39	40	34	37	26	40	30	29	30	29	18	10	11	21	24	34	38	32	33	22	24	28	30	22	.....	30.2
Somerset.....	Maximum.....	62	61	48	62	67	70	71	63	46	55	58	58	57	60	45	43	31	30	35	54	58	54	40	38	34	42	43	42	38	31	.....	49.9
	Minimum.....	41	40	29	36	30	42	46	45	32	38	35	35	36	38	30	27	14	26	17	25	33	35	30	32	25	18	27	22	23	16	.....	30.8
State College.....	Maximum.....	64	59	50	61	57	67	74	72	38	48	48	61	54	55	41	42	31	30	32	56	58	52	42	42	36	43	42	41	35	25	.....	48.5
	Minimum.....	40	39	34	41	28	41	53	36	30	34	36	37	30	37	29	31	14	8	14	22	38	39	32	29	26	20	30	26	22	11	.....	30.2
Towanda.....	Maximum.....	66	62	47	57	60	69	72	67	39	49	59	69	52	50	42	26	30	39	55	60	50	41	45	39	43	44	43	35	26	.....	49.3	
	Minimum.....	37	38	34	35	23	43	38	35	22	25	28	43	30	29	36	24	13	12	9	22	30	40	36	32	28	23	29	27	21	14	.....	28.5
Uniontown.....	Maximum.....	67	60	57	69	73	74	74	68	49	60	71	63	62	62	43	45	35	37	36	51	60	59	41	43	37	48	47	45	45	29	.....	53.7
	Minimum.....	44	41	27	42	32	51	48	39	40	27	42	52	43	43	35	35	21	23	20	29	33	40	33	34	30	25	27	27	18	.....	34.3	
Warren.....	Maximum.....	65	55	48	52	58	62	68	60	50	50	57	50	46	48	43	32	25	26	28	43													

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXIX.

DECEMBER, 1924.

GENERAL SUMMARY.

A slight temperature deficiency was accompanied by a decided shortage in precipitation, it being only about two-thirds of the December normal. The first three weeks were seasonable with moderate temperature fluctuations and occasional light to moderate rains and snows. The remainder of the month was dry and intensely cold with a severe cold wave prevailing from the 26th to the 29th. Snow, in varying amounts was reported from practically all parts of the State, being heaviest in the northwestern counties. There were some heavy local snows in the mountain district. In the southeastern portion of the State, where most of the winter wheat is grown, the snowfall was not heavy enough to afford protection to the fields, and as a result there was more or less damage reported. Only a few localities reported any serious damage to the crop. The month as a whole was the driest December since that of 1900 with the single exception of that of 1917. However the moisture condition of the top soil was fair, due to frequent light precipitation. The streams remained at moderate or low stages, many ponds were low, and the water supply was short in a large part of the State. Farm operations were generally closed up early in the month, and there was little field work done except hauling of manure. The highways were mostly in good condition all of the month in the southeastern part of the State, but snows caused some delays to traffic in the mountains and in some of the northwestern counties. There were no severe or damaging storms during the month, and little disagreeable weather excepting the cold wave near its close.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 79 stations, was 29.8°, or 1.1° below the December normal. The highest mean was 36.1° at Philadelphia and the lowest was 20.8° at Freeland. The highest temperature recorded during the month was 69° at Uniontown on the 8th, and the lowest was -23° at West Bingham on the 28th. The greatest daily temperature range was 45°, at Franklin, on the 16th.

PRECIPITATION.

The average precipitation for the State, as shown by the records from 115 stations, was 2.13 inches, or 1.10 inches below the December normal. The greatest monthly amount at any station was 4.42 inches at Corry, and the least was 0.56 inch at Sunbury. The greatest amount recorded in any 24 consecutive hours was 1.21 inches at Hamburg on the 5th. The average snowfall for the State was 3.6 inches. The greatest monthly snowfall reported was 22.7 inches at Corry. The greatest 24-hour snowfall was 7.5 inches, at Corry, on the 14th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total movement, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	*Highest	Direction	Date
Erie.....	23.2	284.5	8	78	78	13,734	18.5	53	se.	5
Harrisburg.....	91.2	290.6	31	67	68	5,172	7.0	28	w.	14
Philadelphia.....	99.4	290.6	34	66	60	7,258	9.8	33	nw.	14
Pittsburgh.....	62.5	287.3	22	75	71	9,554	12.8	50	w.	13
Reading.....	122.0	291.0	42	79	74	3,831	5.1	30	w.	14
Scranton.....				83	82	6,139	8.3	37	sw.	14

* For any five-minute period.

COMPARATIVE DATA FOR DECEMBER

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	32.5	62	-10	3.14	5.57	1.44	8	8	15
1889.....	39.6	73	0	2.77	5.05	0.85	11	9	11
1890.....	27.2	59	-11	3.97	9.68	1.72	7	8	16
1891.....	38.4	68	-3	4.09	6.53	2.00	12	8	11
1892.....	27.8	70	-13	1.69	4.37	0.40	7	9	15
1893.....	32.2	70	-7	3.06	6.07	1.41	6	11	14
1894.....	32.4	66	-28	3.95	5.93	2.27	10	9	12
1895.....	34.2	70	-10	3.22	6.55	1.40	10	9	12
1896.....	30.6	67	-13	1.20	2.62	0.40	10	9	12
1897.....	33.0	73	-6	3.95	6.25	1.28	6	8	17
1898.....	29.8	68	-11	2.98	4.79	1.31	10	8	13
1899.....	31.5	73	-11	3.04	6.00	1.18	10	10	11
1900.....	31.2	65	-2	2.08	4.16	0.40	8	9	14
1901.....	29.1	77	-18	5.91	10.26	2.62	7	9	15
1902.....	28.4	68	-12	5.54	8.51	1.97	7	7	17
1903.....	25.4	60	-14	2.66	4.83	0.92	8	9	14
1904.....	25.8	71	-19	2.48	3.71	1.32	7	7	17
1905.....	33.6	65	-5	3.57	5.48	0.95	10	7	14
1906.....	30.8	67	-14	3.97	7.08	1.69	5	5	21
1907.....	33.2	68	-8	4.30	7.89	1.85	7	8	16
1908.....	32.0	74	-2	2.86	4.61	1.26	9	8	14
1909.....	27.0	71	-10	3.39	8.50	1.19	9	8	14
1910.....	24.4	68	-14	2.65	4.41	0.64	8	6	17
1911.....	36.3	70	5	3.27	5.99	0.75	7	5	19
1912.....	34.4	74	-8	3.27	6.48	1.70	9	7	15
1913.....	34.2	66	-7	2.63	4.11	0.69	9	6	15
1914.....	27.3	69	-28	4.63	7.74	2.43	8	5	18
1915.....	29.4	70	-7	4.06	6.53	1.36	6	8	17
1916.....	29.7	73	-12	3.07	6.38	0.59	11	9	11
1917.....	21.5	52	-28	1.78	5.16	0.60	10	8	13
1918.....	36.6	72	-1	3.38	5.74	0.90	9	7	15
1919.....	25.3	66	-23	2.61	4.75	0.95	9	8	14
1920.....	33.4	68	-7	3.28	6.77	1.53	7	9	15
1921.....	31.6	66	-11	2.59	6.25	0.91	8	8	15
1922.....	31.5	69	-9	2.75	4.55	1.19	10	7	13
1923.....	39.6	71	1	4.99	8.55	2.42	9	7	15
1924.....	29.8	69	-23	2.13	4.42	0.56	7	7	17

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.0	4.0	20	2.3	4	18
Phillipsburg.....	Delaware.....	2.8	3.8	19	1.3	5	22
Mauch Chunk.....	Lehigh.....	3.9	4.3	2	3.5	5	12
Wilkes-Barre.....	Susquehanna.....	4.3	6.6	21	3.2	5	20
Williamsport.....	Susquehanna.....	2.0	5.7	20	0.2	2	20
Harrisburg.....	Susquehanna.....	4.3	5.0	22	3.7	8	17
Freeport.....	Allegheny.....	5.8	13.8	20	1.9	1	22
West Newton.....	Youghiogheny.....	1.6	2.8	14	0.3	2	20
Lock No. 4.....	Monongahela.....	14.7	17.1	10	13.0	3	31
Pittsburgh.....	Ohio.....	9.2	13.9	20	7.1	6	22
Beaver Dam.....	Ohio.....	8.9	16.7	21	4.9	31	30

Climatological Data for December, 1924

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days			Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear			Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	12	30.2	.....	63	8	10	25†	27	2.12	-1.73	0.79	0.2	11	6	21	4	w.	John A. Frick.
Altoona.....	Blair.....	1,615	37	28.2	-0.8	62	17	-1	26†	35	2.52	+0.17	0.49	11.0	12	8	4	19	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	295	40	33.0	-0.1	63	9	9	26	25	2.22	-1.28	0.62	.....	9	.....	.....	.....	w.	R. H. Brennecke, Jr.
Biglerville.....	Adams.....	652	2	32.2	.....	61	18	5	26	40	1.76	.....	0.97	0.2	6	8	7	16	.....	R. C. Walton.
Bustleton.....	Philadelphia.....	125	5	34.2	.....	65	8	9	29	31	2.38	.....	0.98	T.	9	9	5	17	sw.	Experiment Station.
Carlisle.....	Cumberland.....	467	57	31.4	+0.1	54	13†	5	26	35	1.48	-1.53	0.76	T.	6	9	7	15	nw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	27	29.2	-2.4	60	8	4	26†	35	1.27	-1.73	0.36	1.2	11	12	3	16	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	28	28.4	-0.6	60	19	1	29	35	0.73	-2.02	.....	.....	.....	15	6	10	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	24	31.8	-1.1	59	19†	5	26	41	1.70	-0.92	0.87	0.3	7	6	11	14	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. W. Hess.
Coatesville.....	Chester.....	380	36	31.4	-1.6	65	8	5	29	37	2.71	-1.51	0.98	0.2	11	6	14	11	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	14	30.4	.....	60	8	2	26	30	2.15	-1.57	1.09	0.5	8	8	3	20	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	36	26.8	-2.3	59	8	-12	26	35	2.80	-0.46	0.55	6.0	11	4	6	21	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. K. Hershey.
Freeland.....	Luzerne.....	1,970	9	20.8	.....	52	19	-8	26	30	1.95	.....	0.64	7.3	16	3	9	19	sw.	Theo. Reichmann.
George School.....	Bucks.....	190	17	33.2*	+0.9	65*	8	8*	29	30*	1.93	-1.88	0.96	0.4	9	17	6	8	w.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	600	50	33.1	+1.4	62	18	5	26	40	1.88	-1.45	0.69	0.2	7	5	15	11	w.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	20	29.0	+0.5	59	9	-2	26	37	1.81	-2.46	0.79	2.5	12	9	14	18	w.	Capt. J. G. Johnson.
Gouldsboro.....	Wayne.....	1,875	.....	24.6	.....	57	9	0	23†	30	1.76	-1.35	0.72	3.5	9	6	9	16	w.	Gustav Holtz.
Hamburg.....	Berks.....	535	31	30.3	-1.7	57	8	4	29	26	2.28	-1.57	1.21	0.5	7	6	12	13	w.	State Sanatorium.
Hanover.....	York.....	600	20	34.1	+0.3	62	8	9	26	37	2.01	-1.37	0.60	.....	9	10	9	12	w.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	54	32.3	-0.4	58	8	10	26	24	1.63	-1.02	0.94	1.0	5	7	2	22	nw.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	5	26.8	.....	58	9	-2	26†	39	1.60	.....	0.45	4.5	8	8	7	16	nw.	J. S. Pennell.
Holtwood.....	Lancaster.....	200	9	33.0	.....	61	8	10	26	24	1.24	.....	.....	T.	.....	9	2	10	.....	H. W. Lawry, C. E.
Huntingdon.....	Huntingdon.....	650	36	30.6	-0.9	65	17	-1	29	38	1.52	-1.56	0.63	2.0	9	8	6	17	w.	Prof. W. J. Swigart.
Jersey Shore.....	Lycoming.....	570	4	29.6	.....	58	9	3	26†	31	1.12	.....	0.30	2.0	10	14	3	14	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster.....	Lancaster.....	255	36	32.2	-1.2	53	7†	9	23†	30	2.24	-1.17	0.81	.....	7	17	10	4	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	26	27.6	+0.2	58	17	-9	28	35	1.46	-0.67	0.34	7.0	10	4	2	25	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	83	30.1	-1.8	61	8	7	26	27	1.66	-1.96	1.12	T.	8	15	7	9	nw.	S. B. Benzing.
Lewisburg.....	Union.....	450	49	30.4	+1.4	57	9	4	26†	28	1.22	-2.04	0.30	3.2	10	6	5	20	s.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	580	35	29.2	-1.9	57	8†	3	29	24	1.63	-1.46	0.51	2.6	11	9	3	19	w.	Charles Dunn.
Lykens.....	Dauphin.....	680	9	31.0	.....	60	9	-1	29	37	1.04	.....	0.30	0.5	9	13	7	11	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	33	29.4	-1.1	58	9	3	29	32	2.07	-2.17	1.12	1.9	7	8	7	16	e.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	20	31.0	+0.8	61	17	3	29	32	0.81	-2.27	0.30	1.6	13	5	2	24	nw.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	21	23.5	-2.1	56	9	-11	28	43	1.53	-1.17	0.30	11.0	8	6	4	21	s.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,658	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	12	27.2	.....	60	9	-3	26†	32	1.69	-1.33	0.45	2.5	10	4	9	18	s.	A. H. Boatman.
Narberth.....	Montgomery.....	300	5	33.6	.....	63	8	9	26	36	2.75	.....	0.93	0.6	11	6	5	20	nw.	Charles Decker.
Neshaminy Falls††	Bucks.....	60	35	31.8	.....	67	8	5	29	36	2.46	.....	0.95	T.	10	12	8	11	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	7	30.4	.....	61	8	4	29	27	1.55	.....	1.00	1.2	6	14	10	7	sw.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	117	53	36.1	-0.2	66	8	13	26	25	2.18	-0.86	0.91	0.2	6	5	6	20	nw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	8	35.0	.....	63	8	12	26	24	2.45	.....	0.90	T.	6	.....	.....	.....	.....	Commandant, Navy Yard.
Pbœnixville.....	Chester.....	100	13	32.6	.....	64	8†	6	29	37	2.24	.....	0.95	T.	9	.....	.....	.....	.....	North Springfield Water Co.
Quakertown.....	Bucks.....	496	39	29.8	-1.3	62	8	2	29	34	2.58	-0.96	0.83	0.4	11	9	5	17	sw.	John E. Benner.
Reading.....	Berks.....	325	54	32.9	+0.7	65	8	10	26	24	1.95	-1.37	0.97	0.3	6	6	11	14	nw.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	29	28.8	-1.9	60	8	4	26	26	1.05	-1.56	0.23	4.6	12	3	7	21	sw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	34	31.2	-0.2	58	9	4	26	27	1.21	-2.00	0.60	3.0	6	8	10	13	w.	Prof. Thomas C. Houtz.
Shawmont.....	Philadelphia.....	51	28	34.2	.....	63	8†	12	26†	22	2.61	-1.28	0.96	T.	9	6	12	13	nw.	W. S. Guiles.
State College.....	Center.....	1,217	39	27.5	-2.1	60	17	-1	26†	30	1.09	-1.62	0.31	1.0	9	3	10	18	w.	C. A. Kern.
Towanda.....	Bradford.....	754	29	28.4	-0.2	61	9	1	28	27	0.73	-1.64	0.19	1.3	11	4	5	22	nw.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	58	24.8	-3.4	55	17†	-15	28	29	1.37	-1.23	0.40	5.6	12	8	6	17	w.	George W. Hill.
West Chester.....	Chester.....	455	86	32.4	-0.6	64	8	8	26	38	2.19	-1.90	0.88	0.4	11	14	9	8	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	37	29.2	-1.3	58	9	4	26†	29	1.31	-1.74	0.46	1.0	11	7	4	20	nw.	George A. Beck.
York.....	York.....	400	36	32.9	+0.1	66	8	4	26	32	1.53	-1.61	0.59	0.5	5	9	15	7	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam††.....	Beaver.....	700	31	30.1	.....	63	17	-6	28	31	2.81	+0.09	0.79	.....	14	6	2	23	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	City Engineer.
Bradys Bend††.....	Armstrong.....	930	6	23.0	.....	58	8†	-20	26	40	2.64	.....	0.66	9.0	15	4	6	21	.....	Edward R. Dewey.
Brookville.....	Jefferson.....	1,173	33	25.0	-2.9	60	8	-16	26	40	2.64	-0.19	0.68	8.0	11	10	7	14	.....	John Fawcett.
Claysville.....	Washington.....	1,150	20	30.3	-1.6	64	8	-6	28	37	2.17	-0.78	0.68	1.5	11	7	5	19	n.	J. L. Melvin.
Corry.....	Erie.....	1,430	12	24.1	.....	59	8	-5	26†	32	4.42	.....	0.65	22.7	24	5	4	22	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	27	30.8	-0.9	66	8	-8	28	32	3.00	-0.30	0.72	.....	14	2	22	7	w.	Wm. A. Huff, Jr.
Ebensburg.....	Cambria.....	2,000	6	27.2	.....	61	18	-3	26	34										

Daily Precipitation for December, 1924

Stations	Drainage Basin	Day of month																														Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	
Atlantic Drainage.																																		
Allentown	Lehigh	.02				.79	T.	T.	.54				.01	.02			.02		T.	.07	.02	.03		T.		.32	.28						2.12	
Altoona	Juniata	.40				.49		.26					.02	.42	.30			.40	.14	.01						.06	.02						2.52	
Ansonia	W. Br. Susq.																																	
Bethlehem	Lehigh				.32	.59	.02	.08	.39					.10				.09	.01							.62							2.22	
Biglerville	Susquehanna				.97	.31								.07				.01								.40	T.						2.76	
Bloersville	Lower Susq.					.73	.23	.08						.12				.10			.05					.10							1.41	
Bustleton	Lower Del.					.98	.04	.02	.28					.13				.05		.02						.86	T.						2.38	
Carlisle	Lower Susq.				.76		T.	.33						.10	.02			.04						T.		.23				T.			1.48	
Catawissa	N. Br. Susq.	.25			.36			.15					.10	.02	.05		.02	.09	.08						.10	.05							1.27	
Center Hall	Susquehanna																																	
Chambersburg	Potomac				.87			.29	.06					.16	.01			.03								.28							1.70	
Clearfield	W. Br. Susq.						.06	.07	.48		T.			.13	T.			.05		.01						.98	.04					.02	2.71	
Coatesville	Lower Del.	.02				1.09	.02	T.	.26	T.	T.			.10	T.			.04		T.				T.	T.	.59	.03						2.15	
Colebrook	Lower Susq.	.02				.92		.01	.55		T.			.12				.02								.89	.02						2.53	
Conshohocken	Schuylkill																																	
Cresson	Juniata		.07			.42			.25	*		.10		.40	*	.13		.50	.15	.07	.03	T.	.01		*	.15				.02			2.30	
Doylestown	Lower Del.				.67	.05			.28		T.			.08				.06								.94	.02						2.10	
Emporium	W. Br. Susq.				.26	.30	.02	.36			T.			.15	.10	T.		.55	.55	.16	T.				.05	.30							2.80	
Ephrata	Lower Susq.																																	
Forest City	N. Br. Susq.	.03				.06							.07	.11			.04		.07	.33			.04		.17	.09							1.01	
Freeland	Lehigh	.10	.05			.64		.06	.18		.01	.13		.17	.16	T.		.11	.05	.06		T.	.02	.05	.04	.12							1.95	
George School	Lower Del.	.01				.30	.35	T.	.03	.20				.05	T.			T.		.02						.96	.01					T.	1.93	
Gettysburg	Potomac				.69	.32	T.	.34	.09					.10												.25	.09						1.88	
Girardville	Susquehanna	.02			.80	.11		.22		.01	.02	.06		.03	.12			.14	.06			T.	.01		.25	.01							1.86	
Gordon	Lower Susq.	.03			.20	.79	.01	.11	.09					.12	.05			.13	.07				.05		.16								1.81	
Gouldsboro	Lehigh	.08				.72	.10		.25					.07				.16	.12						.08	.18							1.76	
Graterford	Schuylkill	T.			.79		T.	.48						.06				.05								.21						.07	1.66	
Hamburg	Schuylkill				1.21			.18	.20				T.	.12	T.			.13	.03						.41								2.28	
Hanover	Lower Susq.				.60	.35	.02	.36	.03					.06				.01	T.	T.	T.		T.	T.	.51	.05						.03	2.01	
Harrisburg	do.				.94			T.	.23		T.			.09	T.			.01	T.	T.	T.		T.	T.	.36	T.							1.63	
Hawley	Upper Del.	.12				.45	T.	.03	.04					.40				T.	.17	.15					T.		.24						1.60	
Holtwood	Lower Susq.																																	
Huntingdon	Juniata				.63			.20		T.			.02	.10	.10			.16	.17	.02	T.			T.	.12								1.24	
Jersey Shore	W. Br. Susq.				.30	.03		.20		.01			.06	.20		.01			.07	.09	.15												1.52	
Kennett Square	Delaware																																1.12	
Lancaster	Lower Susq.	.02			.81		.02	.62						.08					.13	.03						.67							2.24	
Lansford	Lehigh		.02			.85		.25		*			.20					.07	.13	.03				*	.13	.07							1.75	
Lawrenceville	N. Br. Susq.	T.			T.	.20		.34		T.			.10	.10	.05	.10		.10	.27	.10	T.												1.46	
Lebanon	Lower Susq.				1.12	.02	T.	.27			T.		.08	T.	.01		T.	.06	.02					.08	T.	T.							1.66	
Lewisburg	W. Br. Susq.				.20	.30		.16					.07	.08	.07			.10	.08	.03					.13	T.							1.22	
Lloyd	W. Br. Susq.																																	
Lock Haven	W. Br. Susq.				.51	.04	.02	.02		T.			.18	.15	.05			.16	.18	.15					.17								1.63	
Lykens	Susquehanna	.02			.30	.18	T.	.12	.04	T.			T.	.03	T.			.10	.02			T.			.23								1.04	
Mauch Chunk	Lehigh	T.			1.12			.32		T.			.04	.24	T.			.15	.04						.16	T.							2.07	
Mifflintown	Juniata	.02			.30	.02	.01	.13	.02				.01	.13	.01			.05	.02	.01					.08								0.81	
Montrose	N. Br. Susq.	.25			.15	.10								.30				.28	.10	.20			T.	T.	.15	T.							1.53	
Mount Pocono	Upper Del.																																	
Mount Union	Juniata				.37	.08	T.	.30		T.			.13	.22				.08		.07	.24				.11								1.69	
Muney Valley	W. Br. Susq.	.09			.37	.08	T.	.30		T.			.13	.22				.08		.07	.24				.11								1.69	
Narberth	Lower Del.	.02		T.		.85	.15	.05	.28	.22	T.	T.		.12	T.			.08		.02			T.		.93	.07					T.	T.	2.75	
Neshaminy	Lower Del.	.05				.95		.05	.25					.10	T.			.07	.05	.05					.40	.55						.01	2.46	
Palmerton	Lehigh	T.			1.00	T.		.15					.02	.08	T.			.07	T.			T.			.23								1.55	
Philadelphia (a)	Lower Del.	T.		T.	.91	T.	T.	.29					T.	.10				.03		T.			T.		.81	.04							2.18	
Philadelphia (d)	do.	T.				.90	T.	T.	.45				T.	.12				.03				T.			.55	.40							T.	2.45
Phoenixville	Schuylkill	.06			.28	.52	.03	.04	.24				T.	.07	T.			.05							.95	T.							2.24	
Pottstown	do.	.04		T.	.82	.19	.01	.20	.08				.04	.14				.05	.02	.02														

Daily Precipitation for December, 1924—Continued from page 47

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Irwin.....	Youghiogheny ..	.20				.43	.10	.01	.24					.56	T.		.02	.44	.10	.01				T.		.22	T.			.01			2.34
Johnstown.....	Conemaugh.....	.08	.02			.52	.13	.01	.17	.04	T.			.03	.38	.03		.39	.12	.02	.01	.01	.02	.01	.22	.12			T.	.02			2.35
Ketner.....	Allegheny.....	.04				.16	.20	.04	.26			.03		.18	.36	.09		.51	.40	.23		.03	.04	.02	.22	.03							2.84
Linesville|||	Beaver.....	.08	.03			.13			.44		.03	.08		.02	.40	.20	.06	.51	.23	.53	.10	.04	T.		.21				.04				3.18
Lock No. 4|||	Monongahela.....	.03	.01	T.	.02	.73			.03	.40				T.	.48	.01	T.	.09	.25	.01	.01		T.		.19	.10			.01				2.37
Lycippus.....	Conemaugh.....	.03		T.	T.	.27	.25	T.	.12					T.	.62			.32	.21	T.	T.	T.			.42	.15			.03				2.42
Martin.....	Monongahela.....	.03	T.	T.	T.	.64	.03	.08	.13					T.	.55			.05	.14		.04	T.			.25	.16			.01				2.11
New Castle|||	Beaver.....	.30				.37	.01	.22	.02					T.	.36	.05	.02	.54	.13	.20	.01		.04		.25								2.52
Newell.....	Monongahela.....	.12		.18		.50	.15		.17						.52			T.	.10	.14	T.				.11	.04							2.03
Parkers Landing|||	Allegheny.....	.10	.05			.45	T.	.05	.40	T.	.05	T.	.58	.15	T.			.60	.12	.15	.10	.05	.05		.30	.10	T.						3.30
Pennline|||	Beaver.....	.07	.02			.08	T.	.46		T.	.03	.04	.31	.05	.02			.49	.39	.52	.05	.02	T.	.12		.01			.03				2.71
Pittsburgh***	Ohio.....	.05		T.	T.	.65	T.	.05		T.	T.	.09	.22	T.		.02	.52	.06	.01	T.	T.		.01	.06	.20	T.		.01	T.				1.95
Ridgway|||	Allegheny.....					.41			.23				.11	.29	.16			.58	.48					.44									2.70
Saltsburg|||	Conemaugh.....	.16	.02			.64	.02	.02	.43			T.	.01	.52	.05	.02		.30	.51	.04	.02	T.	T.	.03	.25	.13			.03				3.20
Saegertown.....	Allegheny.....			.32	T.	.21	.05	.50					.12	.48	T.			.56	.55	.33	.10	.25		.05	.20								3.72
Sharon|||	Beaver.....	.32	T.			.17		.19	T.	T.			.02	.37	.06			.57	.16		.09	T.	.02		.08								2.05
Somerset.....	Youghiogheny ..	.35				.52		.16	.15							.10		.25	.15	.02				.42	.20				.21		.05		2.58
Springdale|||	Allegheny.....	.07				.54			.02	.10	T.		T.	.51	.05	.01		.51	.40	.05	.02		T.	.03	.25	.05			.01				2.62
Uniontown.....	Monongahela.....	.04		T.	.03	.33	.04	.07	.18									.98	.07	.04	T.				.45	.09			T.				2.32
Unity Reservoir|||	Youghiogheny ..	.35				.40	.05		.22					.64				.48	.11					.32	.14				T.				2.71
Vandergrift.....	Conemaugh.....																																
Warren.....	Allegheny.....	.25	.10			.10			.38		.10	.14	.04	.60	.15	.10		.20	.40	.47	.22	.05	.10	.04	.04	.02			.04				3.54
Washington.....	Ohio.....	.15		.02		.81	.01	.02	.20				.15	.28			.06	.25	.10	.08	T.	.01	.01	.02	.28				.01				2.41
Waynesburg|||	Monongahela.....	.03	.07			.73	.16							.57				.05	.16					.10									1.87
Westford|||	Beaver.....	.09				.30		.36					.11	.32	.20		.08	.40	.15	.73	.05	.10	T.		.14								3.03
West Newton|||	Youghiogheny ..	.08		.05	T.		.63		T.	.30				.54				.08	.24		T.			T.	.20	.09			T.				2.21
Lake Drainage.																																	
Erie***	Lake Erie.....	T.				.19	.10	.03	.45	T.	.05	.03	.19	.20	.02		.11	.24	.40	T.	T.	.09	.22	.09	.22	.04			.06	.06		T.	2.79
West Bingham.....	Genesee.....					.10	.15		.36		T.		.10	.20				.50	.35	.36	.05			.05	.10							T.	2.32

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station: precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Post Office address:—Greensburg † Daily amounts inconsistent.

Daily Temperatures for December, 1924

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum...	29	33	40	42	48	45	49	63	53	36	35	40	45	29	32	40	50	41	53	36	25	21	33	35	28	23	32	21	30	39	34	37.4	
	Minimum...	22	22	25	28	28	30	35	36	33	29	26	29	23	21	23	29	38	36	25	12	15	13	13	10	10	10	12	11	13	21	23.0		
Altoona.....	Maximum...	23	28	35	35	35	42	49	53	59	30	32	35	43	37	27	33	62	47	61	48	15	17	25	33	30	25	30	24	28	39	37	36.0	
	Minimum...	13	17	17	30	31	32	34	40	30	23	20	26	32	18	14	24	32	38	36	13	8	8	8	23	6	-1	15	4	-1	17	23	20.3	
Catawissa.....	Maximum...	28	44	45	47	46	44	48	60	46	35	35	40	41	46	35	39	42	50	50	30	23	19	32	33	22	26	30	25	30	35	32	37.4	
	Minimum...	18	18	22	22	26	26	33	36	35	30	22	25	29	29	18	24	30	33	30	23	15	14	6	18	19	4	7	4	4	12	21	21.1	
Chambersburg.....	Maximum...	28	36	42	45	37	46	55	52	57	36	34	45	54	43	38	36	49	57	59	59	22	25	30	32	28	36	30	33	37	35	40.1		
	Minimum...	21	23	17	35	32	33	36	44	35	29	20	23	35	23	18	23	29	40	35	18	14	12	9	29	15	5	8	13	7	19	29	23.5	
Claysville.....	Maximum...	25	31	35	36	55	54	59	64	58	31	36	42	45	36	31	58	63	63	61	35	14	21	33	33	24	24	29	23	34	38	36	39.6	
	Minimum...	12	12	18	29	32	37	41	49	29	23	25	28	35	20	17	27	38	38	34	11	7	9	8	22	-1	-1	13	-6	-3	28	19	21.0	
Clearfield.....	Maximum...																																	
	Minimum...																																	
Coatesville.....	Maximum...	28	35	45	45	40	52	52	65	59	35	33	42	50	40	33	44	59	56	58	53	25	22	29	34	35	24	34	28	29	40	36	40.6	
	Minimum...	16	18	18	35	30	38	37	46	32	24	18	19	35	20	15	22	33	34	34	16	12	11	6	28	14	7	8	10	5	16	29	22.1	
Emporium.....	Maximum...	23	30	36	37	39	46	52	59	57	30	31	36	40	27	29	38	52	40	57	34	19	20	28	35	26	19	26	19	26	38	29	34.8	
	Minimum...	14	18	12	22	20	37	34	42	30	28	25	28	27	19	17	26	36	36	34	13	15	12	10	26	5	-12	-5	-9	-9	18	16	18.9	
Erie.....	Maximum...	27	30	38	37	44	47	50	63	47	32	32	37	39	22	28	52	50	32	56	26	17	17	31	31	24	23	24	12	28	29	26	33.0	
	Minimum...	19	23	30	28	30	38	44	47	29	26	23	31	20	16	19	28	31	29	26	12	13	12	14	24	6	0	12	1	1	21	12	21.5	
Greensburg.....	Maximum...	26	28	33	39	48	50	58	64	60	31	35	42	47	36	30	57	62	66	63	39	16	21	35	35	26	22	29	23	33	38	37	39.6	
	Minimum...	16	17	20	31	34	38	43	50	30	25	25	29	30	20	17	28	43	59	59	13	9	10	12	26	5	0	16	1	0	29	21	23.1	
Grove City.....	Maximum...	27	30	34	36	42	42	52	59	57	40	32	36	41	37	27	47	60	56	55	36	16	25	30	32	24	21	23	14	27	34	34	36.3	
	Minimum...	13	17	16	30	30	33	38	38	26	23	21	30	32	14	11	26	34	33	33	11	10	9	15	24	-1	-5	10	-7	-7	9	12	18.6	
Harrisburg.....	Maximum...	28	37	40	44	38	44	50	58	57	35	34	39	51	34	32	40	55	50	57	41	24	24	31	35	33	26	34	24	30	36	38	37.7	
	Minimum...	23	24	25	36	31	36	41	46	33	30	27	29	34	23	22	30	34	39	38	17	17	14	14	31	12	10	16	12	10	24	26	25.9	
Indiana.....	Maximum...	27	29	32	38	41	48	53	62	60	31	33	37	43	35	28	60	60	61	62	44	18	20	32	33	27	23	27	27	31	36	46	38.8	
	Minimum...	14	17	13	30	33	35	37	49	30	24	23	28	33	17	12	25	26	37	43	18	10	9	7	26	-6	-5	-5	-2	-5	21	19	19.6	
Johnstown.....	Maximum...	24	30	35	38	40	44	56	62	58	32	36	41	45	33	31	40	63	64	62	36	17	20	30	36	-6	-7	30	20	35	41	38	38.8	
	Minimum...	17	20	15	33	34	39	41	47	30	26	26	32	33	19	19	31	39	42	36	12	10	11	12	26	8	5	7	5	2	17	26	23.2	
Lancaster.....	Maximum...	34	40	45	51	45	49	53	52	50	46	39	45	52	34	37	43	45	49	53	41	28	25	29	34	34	28	37	33	32	36	40.5		
	Minimum...	11	11	15	33	30	33	37	43	42	32	22	23	34	26	17	32	30	41	34	22	15	15	9	27	20	9	10	13	9	18	30	24.0	
Mifflintown.....	Maximum...	28	35	37	45	37	45	46	51	56	46	37	36	49	45	31	36	61	54	56	60	24	25	28	33	35	28	35	30	28	34	85	39.2	
	Minimum...	8	21	17	35	29	34	34	39	35	29	25	25	34	21	22	27	32	38	36	18	14	14	8	28	12	7	4	8	3	14	25	27.7	
Philadelphia.....	Maximum...	31	40	47	47	56	56	57	66	61	40	38	45	54	39	36	49	60	49	58	45	26	25	33	38	37	27	39	25	33	39	41	43.1	
	Minimum...	25	25	29	34	32	44	44	48	39	34	30	31	37	29	26	23	32	41	40	41	20	19	18	21	33	15	22	14	18	28	29	29.3	
Pittsburgh.....	Maximum...	25	30	36	40	51	52	55	63	55	31	37	46	46	29	32	58	64	63	61	30	14	21	36	35	22	25	27	12	36	39	32	38.8	
	Minimum...	17	20	27	33	34	39	48	55	27	25	27	33	29	19	19	32	38	38	30	12	10	12	18	22	1	3	12	0	7	8	21	24.0	
Reading.....	Maximum...	28	37	40	46	48	52	65	59	36	35	40	50	33	34	42	52	48	53	40	25	23	32	35	34	24	32	21	32	37	37	39.8		
	Minimum...	22	22	27	34	30	40	39	46	35	31	29	28	33	23	22	30	37	40	37	18	18	17	14	32	18	10	19	12	13	24	25	26.5	
Scranton.....	Maximum...	24	36	36	38	45	44	49	60	58	35	34	36	43	27	29	40	46	41	51	85	18	20	28	34	29	19	31	18	27	36	32	35.5	
	Minimum...	20	22	24	23	20	39	40	46	32	28	25	27	26	20	17	24	36	34	38	15	8	12	10	28	8	4	9	6	7	24	17	22.2	
Selinsgrove.....	Maximum...	31	37	40	42	43	43	47	52	58	37	38	48	48	42	32	37	46	47	48	56	31	24	28	32	33	25	35	32	29	35	86	39.1	
	Minimum...	12	21	19	19	28	38	34	37	36	30	27	29	32	21	20	28	35	34	37	31	24	12	10	27	14	4	12	5	5	20	24	23.4	
Somerset.....	Maximum...	25	28	33	34	36	36	60	62	58	34	28	40	43	25	30	50	61	68	58	46	20	18	32	36	30	32	34	18	30	40	45	38.4	
	Minimum...	18	14	18	28	28	32	34	52	28	22	20	26	21	14	10	22	45	47	44	20	5	10	11	21	5	0	14	5	0	25	24	21.4	
State College.....	Maximum...	23	30	37	39	40	42	46	58	55	30	29	36	43	29	27	35	60	44	58	38	16	20	26	83	29	24	20	22	26	39	38	35.5	
	Minimum...	12	17	18	39	28	33	34	37	30	23	20	24	29	17	15	24	30	33	33	12	9	7	10	24	6	-1	12	2	-1	18	18	19.5	
Towanda.....	Maximum...	23	35	36	37	39	44	51	60	61	34	30	37	43	33	29	37	50	38	57	42	17	22	26	34	32	24	32	19	25	42	29	36.1	
	Minimum...	16	18	20	23	13	37	38	40	34	29	22	23	31	18	19	23	37	32	35	15	6	7	8	25	12	4	14	1	3	22	18	20.7	
Uniontown.....	Maximum...	26	32	35	38	52	55	61	69	61	34	34	35	45	47	34	33	61	64	67	63	40	14	22	40	25	28	26	34	26	39	40	37	41.8
	Minimum...	15	18	17	33	36	40	44	52	34	26	27	30	34	23	18	31	47	42	40	14	10	10	12	28	10	2	11	3	0	29	26	24.6	
Warren.....	Maximum...	24	26	34	36	40	45	48	58	58	35	30	32	36	21	28	38	38	37	50	34	22	22	29	29	16	14	20	14	20	34	31	31.9	
	Minimum...	15	19	20	20	18	38	40	45	27	23	26	27	21	14	15	25	32	30															

5570
UNP

THE LIBRARY OF THE

FEB 28 1925

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU, UNIVERSITY OF ILLINOIS
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXIX. ANNUAL SUMMARY, 1924. No. 13.

GENERAL SUMMARY.

The outstanding features of the year were a cold, wet spring, a moderate midsummer drought, a cold, wet September, and then by far the driest October on record.

April seemed much like the average March, there being a general snowstorm on the 1st that was heavy in the central and southeastern counties, ranging in depth from six to fifteen inches. The snow was melted by heavy rains, saturating the soil and flooding the streams. Field work was badly delayed, and low temperatures caused vegetation to remain nearly dormant. The month of May, with a deficiency of 5.0° in the mean temperature, and an excess of nearly 50 per cent in rainfall, served to make a bad condition much worse. Seeding and planting were almost impossible, and where accomplished the seed germinated very slowly or rotted in the ground. At the end of the month the crop season was fully a month late, being no farther advanced than is usual at the end of April. Conditions in June were a little better than during May, but the month was abnormally cold and wet so that no gain in the crop season was possible. Much corn rotted in the ground and replanting was necessary, so that corn planting extended into July. Cultivation of crops during June was almost impossible, and fields became very weedy. In July and August the rainfall was below the normal. The soil dried out to a good workable condition before the end of July and by the end of August some parts of the State were needing rain. The crop season made no gains but continued to drag along about four weeks late. Oats harvest was still in progress at the end of August. September was one of the coolest on record, and light frosts occurred except in the southeastern counties several times during the month. The rainfall average for the State was the largest on record for the month of September, due chiefly to two days of heavy rains at the end of the month. These rains flooded most of the streams in the State, covered many fields with water, and in some places covered the highways with water to such a depth as to suspend traffic for several hours. In the northeastern part of the State there was much delay in railroad traffic due to washouts of bridges and culverts. Prior to these rains there were large areas in the State where the soil was too dry and lumpy to be prepared for the seeding of winter wheat. This was an outgrowth of the dry condition that began to be in evidence at the end of August. The excessive rains occurred on September 29th and 30th, and were followed by the driest October on record. October temperatures were mostly seasonable, and with almost continuous sunshine, during the daytime, it was a delightful month. The final results of the crop season were better than might have been expected. Wheat and oats were good in both quantity and quality. There was much more soft and shrunken corn than usual and the yield was considerably below the normal, but the results were better than seemed possible during July and August. The hay crop was about a normal one, and the yield of tobacco was the heaviest for several years. There were no record breaking features during November and December, but the rainfall continued below the normal, and at the end of the year some sections were complaining of a shortage in the water supply. In December there was some damage to wheat by alternate freezing and thawing without adequate snow covering on the fields.

COMPARATIVE ANNUAL DATA FOR THE STATE

Year	Temperature		Precipitation		Year	Temperature		Precipitation	
	Highest	Lowest	Greatest total	Least total		Highest	Lowest	Greatest total	Least total
1888.....	100	-31	.....	.....	1907.....	98	-23	64.05	31.79
1889.....	96	-27	.....	.....	1908.....	104	-29	50.26	26.72
1890.....	101	-18	.....	.....	1909.....	100	-19	48.79	27.91
1891.....	100	-14	64.00	32.21	1910.....	99	-22	51.45	31.08
1892.....	103	-28	54.63	32.07	1911.....	105	-18	67.61	29.25
1893.....	102	-25	58.56	30.62	1912.....	100	-35	60.95	33.08
1894.....	103	-28	57.43	28.17	1913.....	102	-9	56.06	32.48
1895.....	104	-26	40.80	21.17	1914.....	101	-28	54.33	28.83
1896.....	101	-21	53.52	32.29	1915.....	99	-26	61.96	33.40
1897.....	103	-25	55.16	19.83	1916.....	103	-31	58.50	31.05
1898.....	107	-16	56.95	34.07	1917.....	105	-29	62.68	23.56
1899.....	101	-39	51.13	28.36	1918.....	108	-34	60.60	29.97
1900.....	104	-23	55.68	25.73	1919.....	104	-23	58.30	31.55
1901.....	107	-22	56.83	29.81	1920.....	99	-21	58.70	26.27
1902.....	100	-24	65.05	29.79	1921.....	104	-15	62.91	30.08
1903.....	99	-17	57.16	35.90	1922.....	100	-19	50.96	26.27
1904.....	99	-42	56.72	31.05	1923.....	103	-20	52.84	23.75
1905.....	99	-25	59.38	33.53	1924.....	102	-25	55.80	30.21
1906.....	99	-21	61.56	32.55					

MONTHLY STATE DATA FOR 1924

Month	Temperature				Precipitation					
	Mean	Depart-ure from normal	Highest	Lowest	Average	Depart-ure from normal	Greatest	Least	Snow	Depart-ure from normal
January.....	28.1	+0.3	65	-13	4.34	+1.05	6.29	1.70	3.6	-7.4
February.....	26.9	-0.4	70	-25	2.94	+0.11	5.16	1.27	16.3	+5.9
March.....	36.1	-0.9	78	3	2.83	-0.58	8.97	0.59	10.3	+3.3
April.....	46.5	-2.1	82	6	4.15	+0.80	7.52	1.77	7.4	+4.6
May.....	54.6	-5.0	92	18	5.71	+1.87	9.64	3.31	0.0	0.0
June.....	65.8	-1.7	98	26	5.57	+1.47	9.75	2.23	0.0	0.0
July.....	69.7	-2.3	97	34	3.42	-0.79	7.12	0.71	0.0	0.0
August.....	70.1	-0.0	102	31	3.78	-0.79	7.54	1.48	0.0	0.0
September.....	59.8	-3.9	99	26	6.44	+3.16	11.72	3.46	0.0	0.0
October.....	52.9	+0.6	87	14	0.28	-3.03	2.30	0.00	0.0	0.0
November.....	40.7	-0.1	78	-9	1.54	-1.11	3.29	0.56	2.9	+0.3
December.....	29.8	-1.1	69	-23	2.13	-1.10	4.42	0.56	3.6	-5.6
Year.....	48.7	-1.4	102	-25	43.26	+1.06	11.72	0.00	44.7	+1.1

KILLING FROSTS OR FREEZING TEMPERATURE

Stations	Last in spring	First in autumn	Stations	Last in spring	First in autumn
Allentown.....	Apr. 5	Oct. 23	Lawrenceville.....	May 31	Sept. 24
Altoona.....	do. 27	Sept. 11	Lebanon.....	Apr. 9	Oct. 14
Beaver Dam.....	do. 24	Oct. 21	Lewisburg.....	May 5	do. 10
Biglerville.....	do. 5	Sept. 11	Lycippus.....	Apr. 26	do. 21
Bradford.....	June 1	do. 7	Lykens.....	May 5	Sept. 11
Bradys Bend.....	May 31	do. 6	Mauch Chunk.....	do. 5	Oct. 9
Brookville.....	Apr. 30	do. 7	Mifflintown.....	do. 5	do. 9
Bustleton.....	do. 21	Oct. 21	Montrose.....	do. 31	do. 9
Carlisle.....	May 2	Sept. 11	Mount Pocono.....	do. 5	Sept. 24
Catawissa.....	do. 5	Oct. 9	Muncy Valley.....	do. 31	do. 7
Center Hall.....	.....	do. 9	Narberth.....	Apr. 4	Oct. 22
Chambersburg.....	May 5	do. 22	Neshaminy Falls.....	May 5	do. 14
Claysville.....	do. 5	Sept. 11	New Castle.....	do. 31	do. 9
Clearfield.....	do. 5	Oct. 9	Newell.....	.....	do. 10
Coatesville.....	do. 5	do. 10	Palmerton.....	May 2	do. 9
Colebrook.....	do. 5	do. 14	Philadelphia (a).....	Apr. 3	do. 23
Corry.....	do. 25	Sept. 24	Phoenixville.....	do. 24	do. 14
Derry.....	Apr. 24	do. 11	Pittsburgh.....	do. 21	do. 23
Ebensburg.....	May 31	do. 7	Quakertown.....	May 5	Sept. 25
Emporium.....	June 1	Oct. 9	Reading.....	Apr. 4	Nov. 16
Ephrata.....	Apr. 24	do. 9	Ridgway.....	June 1	Sept. 25
Erie.....	do. 21	do. 23	Saegertown.....	May 31	do. 24
Franklin.....	May 5	do. 9	Scranton.....	Apr. 9	Oct. 14
George School.....	Apr. 24	do. 14	Selinsgrove.....	May 5	Sept. 11
Gettysburg.....	do. 21	do. 21	Sharon.....	Apr. 10	Oct. 23
Gordon.....	May 5	Sept. 7	Shawmont.....	do. 4	do. 22
Greensburg.....	Apr. 23	do. 11	Somerset.....	May 1	Sept. 11
Greenville.....	May 22	do. 24	State College.....	Apr. 21	Oct. 9
Grove City.....	do. 5	Oct. 10	Towanda.....	May 5	do. 14
Hamburg.....	do. 5	do. 12	Uniontown.....	Apr. 21	do. 11
Hanover.....	Apr. 21	do. 21	Unity Reservoir.....	do. 11	Sept. 25
Harrisburg.....	do. 3	Nov. 17	Vandergrift.....	do. 25	Oct. 10
Hawley.....	June 1	Sept. 24	Warren.....	June 1	do. 9
Holtwood.....	.....	Nov. 16	Washington.....	May 5	do. 10
Huntingdon.....	May 5	Sept. 7	Wellsboro.....	June 1	Sept. 23
Indiana.....	do. 5	do. 11	West Bingham.....	do. 1	Aug. 2
Jersey Shore.....	.....	Oct. 10	West Chester.....	Apr. 21	Oct. 22
Johnstown.....	Apr. 21	do. 23	Williamsport.....	May 5	do. 14
Lancaster.....	May 5	do. 10	York.....	do. 5	do. 10

Climatological Data for the Year 1924

STATION	Counties	Elevation, feet	Temperature (degrees Fahrenheit)						Precipitation (inches)						Sky				Prevailing direction of wind	
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total for the year	Greatest monthly	Month	Least monthly	Month	Total snowfall (unmelted)	Number days with .01 or more	Number clear days	Number partly cloudy days		Number cloudy days
Atlantic Drainage.																				
Allentown	Lehigh	254	12		100	Aug. 6			13	44.38	5.14	Jan.	1.46	Mar.		124				w.
Altoona	Blair	1,615	28	47.1	92	do. 31	-5	Feb. 24	37	43.31	7.64	May	0.20	Oct.	89.0	138	177	89	100	w.
Bethlehem	Northampton	295	21		99	do. 6	1	Jan. 22	38				0.00	do.						sw.
Biglerville	Adams	652	2		99 ^k	do. 31	2	do. 22	2	46.84	9.75	June	0.04	do.	50.2					
Bustleton	Philadelphia	125	5	51.5	98	do. 6	4	do. 22	5	48.15	6.55	Sept.	0.17	do.	23.5	109	172	71	123	sw.
Carlisle	Cumberland	467	58	51.2	100	do. 6	2	Feb. 24	36	43.78	6.67	June	0.20	do.	51.5	92	204	52	110	nw.
Catawissa	Columbia	520	28	48.9	98	do. 6	0	do. 25	28	41.34	7.35	Sept.	0.27	do.	36.9	100				
Chambersburg	Franklin	580	25	50.1	97	do. 6 [†]	-2	do. 24	24	46.24	6.51	June	0.12	do.	41.1	111	149	96	121	sw.
Clearfield	Clearfield	1,120	15		97	do. 31			15				0.10	do.						nw.
Coatesville	Chester	380	37	49.7	97	do. 6	1	Jan. 22	37	51.36	6.72	Sept.	0.05	do.	39.4	116	140	137	89	nw.
Colebrook	Lebanon	560	9	49.0	98	do. 6	0	do. 22	15	46.08	6.55	do.	0.01	do.	44.4	119	169	61	136	w.
Emporium	Cameron	1,050	37	45.3	93	June 20	-17	Feb. 24	37	40.73	6.61	do.	0.24	do.	49.7	120	134	101	181	w.
Ephrata	Lancaster	380	24		96	Aug. 6	3	Jan. 22	34				0.07	do.						
Freeland	Luzerne	1,970	5	41.0	90	July 29 [†]	-11	do. 22 [†]	9	51.05	9.38	Sept.	1.46	do.	69.4	161	122	100	144	nw.
George School	Bucks	190	18	51.2	98	Aug. 6	-3	Feb. 14	18	46.38	6.22	May	0.29	do.	57.6	118	228	62	76	
Gettysburg	Adams	600	49	51.7	100	do. 6 [†]	0	Jan. 22	51	50.79	7.77	June	0.10	do.	49.7	99	138	138	90	w.
Gordon	Schuylkill	840	21	47.0	93	do. 6	-8	Feb. 24	21	51.07	11.72	Sept.	0.35	do.	43.1	120	180	71	115	w.
Hamburg	Berks	535	31	48.7	97	do. 6	0	do. 24	32				0.00	do.		168	117	81	71	w.
Hanover	York	600	21	51.9	98	do. 6	3	Jan. 22	21	42.91	7.48	June	0.19	do.		116	208	82	76	w.
Harrisburg	Dauphin	361	37	51.2	97	do. 6	4	do. 21	55	47.71	6.52	Sept.	0.02	do.	35.2	107	107	99	160	w.
Hawley	Wayne	900	6	46.0	96	do. 6	-10	Feb. 24	6	35.73	5.11	May	0.99	Mar.		98	168	101	97	w.
Holtwood	Lancaster	200	5		97	do. 6	5	Jan. 21 [†]	9	41.56	6.34	do.	T.	Oct.	40.3		130	83	153	
Huntingdon	Huntingdon	650	37	49.0	99	Sept. 1	-11	Feb. 24	37	43.37	7.12	July	0.09	do.		118	172	105	89	w.
Lancaster	Lancaster	255	22		100	Aug. 6	3	Jan. 22	37				0.07	do.						w.
Lawrenceville	Tioga	1,000	27	46.3	95	do. 31	-20	Feb. 24	27	32.13	6.23	Sept.	0.18	do.	37.5	104	137	93	136	
Lebanon	Lebanon	469	36	50.2	100	do. 6	-1	Jan. 21	84	46.32	8.29	June	0.02	do.		120				sw.
Lewisburg	Union	450	49	50.0	99	do. 6	-11	Feb. 24	50	43.62	6.88	Sept.	0.22	do.	43.1	126	149	88	129	w.
Lykens	Dauphin	680	10	49.3	100	do. 6	-3	do. 24	10	49.61	10.47	do.	0.10	do.	27.0	112	216	78	72	nw.
Mauch Chunk	Carbon	600	35	49.0	97	do. 6	0	Jan. 22 [†]	35	50.16	10.66	do.	0.18	do.	33.6	100	175	89	102	w.
Mifflintown	Juniata	445	21	50.3	97	do. 6	-4	Feb. 24	21	41.55	6.69	June	0.20	do.	40.0	127	150	57	159	w.
Montrose	Susquehanna	1,658	22	43.2	89	do. 31	-13	Jan. 28	21	34.34	6.44	Sept.	0.00	do.	56.0	98	180	61	125	s.
Muncy Valley	Sullivan	1,045	13	46.0	93	do. 6	-10	do. 27	13	45.85	9.35	do.	0.25	do.		113	131	136	99	w.
Narberth	Montgomery	300	5	51.2	95	do. 6 [†]	0	do. 22	6	54.48	7.54	Aug.	0.17	do.	41.4	130	149	85	132	sw.
Neshaminy Falls	Bucks	60	10	49.8	99	do. 6	-3	Feb. 14	10	46.60	5.78	May	1.43	do.	14.1	110	201	74	91	w.
Palmerton	Carbon	398	6	49.5	99	do. 31	1 ^d	Jan. 21 [†]	8	38.80	8.56	Sept.	0.12	do.	35.5	91	195	103	68	
Philadelphia (a)	Philadelphia	117	53	53.8	96	do. 6	6	do. 22	53	43.11	5.37	Apr.	0.09	do.	20.2	103	114	94	158	w.
Philadelphia (d)	Philadelphia	12	9	52.9	98	do. 6	6	do. 22	9	45.88	5.42	Jan.	1.28	do.	20.7	98				
Phoenixville	Chester	100	14	50.6	102	do. 6 [†]	2	do. 22	14	50.76	7.14	June	0.23	do.		102				w.
Quakertown	Bucks	496	38	48.4	99	do. 6	1	do. 22	40	43.96	6.88	Sept.	0.14	do.	38.1	119	152	109	105	nw.
Reading	Berks	325	47	51.4	97	do. 6	4	do. 22	55	44.07	6.33	do.	0.04	do.	30.3	100	155	116	95	nw.
Scranton	Lackawanna	805	29	48.1	93	do. 6	0	do. 27	30	34.06	7.35	do.	0.08	do.	38.1	117	88	135	143	sw.
Selinsgrove	Snyder	455	35	49.6	96	do. 6	-5	Feb. 24	36	45.56	7.25	do.	0.45	do.	35.6	106	177	119	70	w.
Shawmont	Philadelphia	51	8	52.1	96	do. 7	6	Jan. 22	29	49.14	6.88	Aug.	0.09	do.		103				nw.
State College	Center	1,217	37	46.0	92	do. 6	-7	Feb. 24	40	39.64	6.21	May	0.12	do.	43.8	122	120	147	99	w.
Towanda	Bradford	754	30	46.3	93	do. 31	-15	do. 24	30	30.33	6.34	Sept.	0.08	do.	27.6	119				nw.
Wellsboro	Tioga	1,419	45		93	June 29	-24	do. 24	60	30.21	5.75	do.	0.03	do.	52.4	101				sw.
West Chester	Chester	455	70		96	Aug. 6	2	Jan. 22	92				0.06	do.	37.5					nw.
Williamsport	Lycoming	521	35	49.5	98	do. 6	-5	Feb. 24	38	39.17	5.91	Sept.	0.33	do.	28.5	133	176	60	130	nw.
York	York	400	25	51.0	100	do. 31	3	Jan. 22	37	39.29	7.36	June	T.	do.	39.5	99	187	98	81	e.
Ohio Drainage.																				
Beaver Dam	Beaver	700	11	50.4	96	do. 31	-6	Dec. 28	32	39.66	7.25	June	0.21	Oct.		148	131	44	191	sw.
Bradford	McKean	1,427	8		92 ^b	June 20			10				0.21	do.						sw.
Bradys Bend	Armstrong	930	7	44.5	91	Aug. 31	-20	Dec. 26	7	42.37	7.93	May	0.07	do.	53.5	151	133	106	127	
Brookville	Jefferson	1,173	14		92	do. 6 [†]	-23	Feb. 24	34				0.31	do.	48.5					
Claysville	Washington	1,150	21	49.9	96	do. 31	-6	Dec. 28	21	45.31	6.96	Sept.	0.38	do.	27.7	146	161	70	135	n.
Corry	Erie	1,430	13	44.5	92	do. 31	-15	Feb. 24	13	45.77	8.36	do.	0.62	do.	95.7	191	127	106	133	
Derry	Westmoreland	1,172	28	49.6	96	do. 31	-8	Dec. 28	28	49.86	8.70	May	0.14	do.		145				w.
Ebensburg	Cambria	2,000	7	44.3	89	do. 31 [†]	-16	Feb. 16	7				0.11	do.		165	98	103		w.
Elk Lick	Somerset	2,680	7		88	do. 6 [†]			7				0.82	do.						w.
Franklin	Venango	957	31	46.0	93	June 20 [†]	-9	Feb. 24	52	45.04	9.45	Sept.	0.19	do.	41.7	148				w.
Greensburg	Westmoreland	1,150	17		95	Aug. 31	-3	Jan. 21	17	44.14	7.15	May	0.07	do.	48.6	147	114	111	141	w.
Greenville	Mercer	950	29		97	do. 31	-12	Feb. 24	29	40.40	8.97	Sept.	0.24	do.						
Grove City	Mercer	1,256	18	47.3	94	Sept. 1	-7	Dec. 28 [†]	18	42.20	8.78	do.	0.29	do.	45.9	144	121	88	157	sw.
Indiana	Indiana	1,350	28	48.5	92	June 21	-6	do. 25	27				0.02	do.		156	63	147		
Irwin</																				

Monthly and Annual Precipitation for the Year 1924, with Departures from the Normal

STATIONS		January		February		March		April		May		June		July		August		September		October		November		December		Annual	
		Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
DELAWARE BASIN.	Allentown.....	5.14	+1.49	4.26	+1.25	1.46	-2.52	4.79	+0.95	5.07	+1.45	4.85	+1.41	3.80	-1.25	3.73	-0.62	5.00	+1.65	1.66	-1.75	2.50	+0.10	2.12	-1.73	44.38	+0.43
	Bethlehem.....	4.13	+0.55	3.76	+0.27	1.14	-2.50	4.29	+1.14	4.40	+0.68	3.06	-0.91	3.26	-2.20	.....	.....	6.38	+2.99	0.00	-3.23	2.26	-0.85	2.22	-1.28	.....	.....
	Bustleton.....	4.93	.....	3.99	.....	3.24	.....	6.11	.....	6.24	.....	5.24	.....	2.33	.....	.....	.....	6.55	.....	0.17	.....	2.06	.....	2.38	.....	48.15	.....
	Coatesville.....	5.90	+1.93	5.15	+1.05	5.02	+0.66	6.30	+2.67	5.05	+1.02	6.32	+2.28	2.89	-2.13	3.18	-1.25	6.72	+2.82	0.05	-3.47	2.07	-1.12	2.71	-1.51	51.36	+2.95
	Conshohocken.....	5.79	.....	4.15	.....	2.96	.....	7.52	.....	4.97	.....	5.50	.....	2.91	.....	.....	.....	5.64	.....	0.15	.....	2.47	.....	2.53	.....	51.97	.....
	Doylstown.....	3.53	-0.13	3.34	-0.52	2.30	-1.77	5.80	+1.82	5.39	+1.38	5.36	+1.36	3.76	-1.10	5.23	-0.30	5.75	+1.80	0.15	-3.83	1.98	-1.32	2.10	-1.92	44.69	-4.53
	Freeland.....	5.57	.....	4.11	.....	1.98	.....	4.43	.....	6.77	.....	5.48	.....	3.18	.....	.....	.....	4.09	.....	1.46	.....	2.65	.....	1.95	.....	51.05	.....
	George School.....	4.84	+1.77	3.88	+0.78	2.91	-0.55	5.61	+2.01	6.22	+2.61	5.42	+2.19	3.09	-1.29	4.90	+0.30	5.55	+2.53	0.29	-2.96	1.74	-0.97	1.93	-1.88	46.38	+4.54
	Gouldsboro.....	4.64	+1.40	2.36	-1.37	2.24	+1.02	4.28	-0.42	7.89	+3.84	2.36	-2.37	3.46	-2.21	3.88	-1.30	8.11	+4.79	1.92	-1.63	3.29	+0.46	1.76	-1.35	46.19	-1.08
	Graterford.....	4.11	.....	4.20	.....	3.16	.....	4.84	.....	4.58	.....	6.10	.....	2.21	.....	.....	.....	3.68	.....	0.11	.....	1.04	.....	1.66	.....	37.61	.....
	Hamburg.....	2.97	-0.79	.....	.....	.....	.....	4.41	+0.16	5.33	+0.83	6.43	+2.21	5.11	+0.40	3.53	-1.83	5.70	+1.50	0.00	-4.06	1.44	-1.42	2.28	-1.57	.....	.....
	Hawley.....	3.46	.....	2.25	.....	0.99	.....	4.59	.....	5.11	.....	2.28	.....	2.31	.....	.....	.....	3.73	.....	2.30	.....	2.07	.....	1.60	.....	35.73	.....
	Kennett Square.....	.....	.....	.....	.....	.....	.....	.....	4.95	+0.58	7.59	+3.30	4.31	-0.04	6.40	+1.39	6.63	+2.52	0.08	-3.31	2.32	-0.37	1.32	.....	.....	.....	.....
	Lansford.....	5.33	+1.95	1.52	-1.39	1.19	-2.32	4.00	+0.27	6.03	+2.58	4.88	+0.65	3.44	-1.22	3.81	-0.95	9.21	+5.39	1.39	-2.95	1.11	-0.20	1.75	-1.93	44.66	-0.12
	Mauch Chunk.....	5.64	+1.86	3.38	-0.49	1.53	-2.97	5.10	+0.18	6.84	+2.83	4.89	+0.59	3.95	-1.15	3.68	-1.29	10.66	+6.79	1.89	-3.58	2.24	-1.09	2.07	-2.17	50.16	+0.51
	Mount Pocono.....	5.15	+2.00	.....	.....	1.96	-1.80	6.08	+1.90	7.85	+4.06	.....	.....	.....	.....	.....	.....	8.05	+3.16	0.30	-4.72	.....	.....	.....	.....	.....	.....
	Narberth.....	4.65	.....	3.72	.....	3.70	.....	7.17	.....	6.81	.....	6.05	.....	2.28	.....	.....	.....	7.54	.....	0.17	.....	2.17	.....	2.75	.....	54.48	.....
	Neshaminy Falls.....	5.32	.....	4.18	.....	2.54	.....	5.39	.....	5.78	.....	5.73	.....	2.35	.....	.....	.....	4.88	.....	1.43	.....	1.70	.....	2.46	.....	49.60	.....
	Palmerston.....	3.63	.....	2.66	.....	1.30	.....	3.56	.....	3.70	.....	3.68	.....	4.65	.....	.....	.....	3.61	.....	0.12	.....	1.78	.....	1.55	.....	38.80	.....
Philadelphia (a).....	4.45	+1.04	4.57	+1.09	3.45	0.00	5.37	+2.46	4.91	+1.71	4.31	+1.01	3.18	-1.15	3.77	-0.84	5.08	+1.70	0.09	-3.01	1.75	-1.31	2.18	-0.86	34.11	+1.80	
Philadelphia (d).....	5.42	.....	4.56	.....	3.85	.....	4.47	.....	4.73	.....	5.15	.....	3.95	.....	.....	.....	3.46	.....	1.28	.....	1.81	.....	2.45	.....	45.88	.....
Phoenixville.....	6.29	.....	4.10	.....	2.45	.....	5.81	.....	5.25	.....	7.14	.....	3.14	.....	.....	.....	5.47	.....	0.23	.....	2.30	.....	2.24	.....	50.76	.....
Pottstown.....	4.69	+1.26	4.38	+0.85	2.62	-1.25	5.05	+0.84	5.45	+0.16	8.78	+4.97	0.71	-4.73	3.32	-0.61	4.53	+1.20	0.06	-3.03	1.55	-1.67	2.15	-1.52	52.37	-2.53	
Pottsville.....	5.22	+1.29	5.16	+1.61	2.01	-2.10	5.04	+1.38	6.25	+1.89	6.69	+2.41	3.49	-1.55	4.33	-0.63	9.59	+5.69	0.16	-3.87	2.09	-1.20	1.79	-2.25	52.12	+2.67	
Quakertown.....	4.83	+1.34	3.56	-0.20	1.95	-1.76	4.41	+2.18	5.41	+1.39	5.04	+1.21	2.59	-2.23	3.68	-0.91	6.88	+3.22	0.14	-3.23	2.19	-0.97	2.58	-0.96	43.96	-0.75	
Reading.....	4.62	+1.10	4.20	+0.57	3.17	-0.37	5.34	+2.12	5.36	+1.99	5.15	+1.48	1.76	-2.46	4.71	+0.23	6.33	+2.68	0.04	-3.22	1.44	-1.68	1.95	-1.37	44.07	+3.08	
Shawmont.....	4.87	+1.62	5.05	+1.87	3.48	-0.19	5.73	+2.56	6.09	+2.63	4.97	+1.50	1.51	-3.08	6.88	+1.75	6.04	+2.81	0.09	-3.25	1.82	-1.06	2.61	-1.28	49.18	+5.84	
West Chester.....	4.87	+0.99	3.77	-0.13	3.14	-0.93	5.67	+1.89	4.21	-0.24	5.57	+1.38	.....	.....	.....	.....	5.96	+1.28	0.36	-3.68	2.01	-1.62	1.99	-1.90	.....	.....
White Haven.....	4.19	+1.37	3.15	+0.35	1.20	-2.13	4.75	+1.36	4.79	+1.00	3.62	-0.58	2.81	-2.18	4.62	+0.35	8.86	+6.09	0.28	-3.15	2.74	-0.49	1.76	-1.75	42.77	+0.24	
SUSQUEHANNA BASIN.	Altoona.....	4.36	+1.86	2.21	-0.10	2.58	-0.12	3.46	+0.59	7.64	+3.62	6.27	+2.35	3.15	-0.12	4.22	+0.83	5.09	+2.31	0.20	-2.29	1.61	-0.30	2.52	+0.17	43.31	+9.00
	Ansonia.....	2.57	+0.16	1.92	-0.01	1.08	-1.19	3.86	+0.22	4.92	+1.04	2.92	-1.23	3.25	+0.03	5.26	+1.91	5.41	+2.20	0.13	-3.08	0.73	-1.04	.....	.....	.....	.....
	Blossville.....	4.29	.....	2.94	.....	5.07	.....	6.25	.....	6.69	.....	7.46	.....	2.93	.....	.....	.....	7.66	.....	0.23	.....	1.85	.....	1.41	.....	53.59	.....
	Carlisle.....	4.57	+1.45	4.17	+1.50	3.62	+0.08	4.45	+1.12	4.95	+1.12	6.67	+2.83	2.91	-0.95	3.83	-1.43	5.36	+1.74	0.20	-3.06	1.57	-1.62	1.48	-1.53	43.78	+1.25
	Catawissa.....	3.44	+0.12	2.85	+0.17	2.16	-0.59	4.41	+1.00	4.93	+1.35	5.89	+2.00	3.28	-0.49	3.63	-0.49	7.35	+3.95	0.27	-2.83	1.56	-1.15	-1.27	-1.73	41.34	+1.31
	Cedar Run.....	3.87	.....	2.03	.....	0.97	.....	3.97	.....	4.96	.....	3.25	.....	4.70	.....	.....	.....	3.46	.....	.....	.....	1.30	.....	.....	.....	.....	.....
	Center Hall.....	4.70	+2.15	3.21	+0.91	2.57	-0.68	3.40	+0.26	.....	.....	7.44	+3.44	2.18	-1.71	.....	.....	7.48	+4.49	0.00	-3.05	1.14	-0.88	0.73	-2.02	.....	.....
	Clearfield.....	4.28	+0.44	2.04	-0.65	2.97	-0.60	1.35	+0.94	6.05	+1.27	5.70	+0.64	5.28	+1.28	3.89	-1.25	5.28	+1.50	0.10	-2.22	1.76	-1.08	.....	.....	.....	.....
	Colebrook.....	4.13	+0.72	4.39	-1.51	4.06	+0.26	4.85	+0.65	6.22	+2.99	6.42	+2.33	2.15	-1.89	3.57	-2.01	6.55	+3.13	0.01	-2.96	1.58	-1.04	2.15	-1.57	46.08	+2.12
	Driftwood.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Emporium.....	4.55	+1.02	2.66	-0.21	2.31	-1.41	5.22	+1.89	5.44	+0.99	3.54	-0.99	4.72	+0.28	1.49	-2.58	6.61	+3.17	0.24	-3.06	1.15	-1.56	2.80	-0.46	40.73	-2.82
	Ephrata.....	3.92	+0.93	3.33	+0.17	3.44	-1.08	4.01	+0.46	5.78	+2.25	6.44	+2.22	2.90	-1.64	3.74	-1.16	7.10	+3.62	0.07	-3.10	1.00	-1.39	.....	.....	.....	.....
	Everett.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Forest City.....	2.78	.....	1.86	.....	0.62	.....	4.72	.....	4.60	.....	2.66	.....	2.35	.....	.....	.....	5.60	.....	0.21	.....	2.49	.....	1.01	.....	37.04	.....
	Gettysburg.....	4.87	+1.73	4.04	+1.23	2.26	+2.10	4.81	+0.71	6.67	+2.70	7.77	+3.87	5.27	+1.65	2.22	-1.85	6.68	+3.21	0.10	-3.10	1.82	-0.85	1.88	-1.45	50.79	+9.95
	Girardville.....	5.27	+0.96	2.12	-1.83	2.08	-2.32	4.80	+0.71	5.82	+1.27	6.02	+1.54	5.83	+2.42	4.62	-0.66	10.93	+6.62	0.32	-3.89	2.59	-0.86	1.86	-2.57	52.26	-0.99
	Gordon.....	5.88	+1.95	2.55	-0.92	1.83	-2.49	4.48	-0.18	5.40	+1.64	6.86	+2.46	5.83	+0.69	1.72	-3.05	11.72	+7.26	0.38	-4.00	2.61	-0.18	2.81	-2.46	51.01	+0.62
	Hanover.....	4.42	+1.10	3.39	+0.65	4.91	+1.76	4.00	+0.71	3.97	+0.67	7.48	+3.75	2.86	-1.61	1.99	-2.79	6.19	+3.34	0.19	-2.67	1.50	-0.43	2.01	-1.37	42.97	+3.11
	Harrisburg.....	5.05	+2.23	4.11	+1.30	2.46	-0.66	5.15	+2.66	4.49	+2.82	6.47	+2.92	4.52	+0.65	3.66	-0.59	6.52	+3.67	0.02	-2.93	1.63	-0.72	1.63	-1.02	47.71	+8.31
Holtwood.....	4.70	.....	3.83	.....	4.22	.....	4.76	.....	6.34	.....	6.01	.....	2.59	.....	.....	.....	2.27	.....	T.....	.....	1.53	.....	1.24	.....	41.56	.....
Huntingdon.....	4.32	+1.00	2.63	-0.21	3.43	-0.13	3.61	+0.24	6.45	+2.13	5.00	+0.52	7.12	+3.33	3.18	-0.91	4.41	+0.39	0.09	-2.92	1.61	-0.65	1.52	-1.56	43.37	+1.83	
Jersey Shore.....	3.37	.....	2.06	.....	3.78	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.06	.....	1.20	.....	2.24	.....	.....	.....
Lancaster.....	4.70	+1.52	.....	.....	4.59	+1.14	4.04	+0.50	5.07	+1.79	7.69	+3.70	3.73	-0.19	3.98	-0.05	6.20	+2.86	0.07	-3.01	1.24	-1.18	2.24	-1.17	.....	.....
Lawrenceville.....	1.70	-0.34	2.30	+0.47	1.25	-1.26	3.92	+0.78	3.92	+0.06	3.75	-0.14	3.00	-1.30	3.37	-0.43	6.23	+									

(Continued on page 52).

Monthly and Annual Precipitation for the Year 1924, with Departures from the Normal.—Continued

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	
Greenville.....	3.64	-0.08	2.30	-0.29	1.69	-1.97	2.57	-0.70	5.52	+1.92	4.18	-0.03	4.92	+0.56	1.94	-1.82	8.97	+5.75	0.24	-3.41	1.31	-1.39	3.12	+0.13	40.40	-1.33	
Grove City.....	3.09	-0.43	2.11	-0.23	2.54	-0.49	3.98	-0.05	7.11	+3.31	4.00	-0.04	2.87	-1.35	2.37	-1.30	8.78	+5.70	0.29	-3.29	1.47	-0.67	3.59	+0.74	42.20	+1.90	
Herrs Island Dam.....	4.18	+1.13	2.53	+0.15	4.19	+0.69	3.06	-0.01	4.85	+2.03	4.72	+0.54	3.09	-0.38	4.41	+0.99	5.02	+2.66	0.13	-2.58	1.37	-0.40	2.14	-0.67	39.69	+4.15	
Indiana.....	.....	.....	.....	.....	.....	.....	.....	.....	7.06	+2.79	.....	.....	4.32	-0.09	5.44	+0.93	6.42	+2.54	0.02	-3.60	1.21	-1.49	3.08	-0.41	.....	.....
Ingram.....	3.62	.....	2.44	.....	4.34	.....	3.39	.....	5.27	.....	5.33	.....	3.75	.....	4.78	.....	5.60	.....	0.08	.....	1.46	.....	2.15	.....	42.21	.....
Irwin.....	3.69	+0.65	2.65	+0.40	3.36	-0.18	2.92	-0.43	5.06	+1.82	3.83	-0.82	2.30	-1.86	2.24	-1.83	4.11	+1.34	0.06	-2.77	1.38	-0.88	2.34	-0.61	33.94	-5.17	
Johnstown.....	4.87	+0.58	3.31	-0.44	3.60	-0.44	3.70	-0.26	6.77	+2.18	8.14	+2.95	4.10	-0.30	3.34	-1.21	5.23	+1.73	0.11	-2.88	1.76	-1.16	2.35	-1.30	47.23	-0.55	
Ketner.....	3.76	.....	2.45	.....	1.84	.....	3.20	.....	5.16	.....	4.39	.....	2.63	.....	2.87	.....	7.19	.....	0.24	.....	1.32	.....	2.84	.....	37.89	.....
Linesville.....	4.13	.....	2.18	.....	1.48	.....	2.91	.....	5.20	.....	5.56	.....	4.03	.....	3.83	.....	7.71	.....	0.60	.....	1.15	.....	3.13	.....	41.91	.....
Lock No. 4.....	4.19	+1.00	2.41	-0.32	4.08	+0.78	2.81	-0.36	5.81	+2.14	3.82	-0.19	2.59	-1.76	1.60	-2.02	6.00	+3.22	0.13	-2.63	1.52	-0.88	2.37	-0.52	37.33	-1.54	
Lycippus.....	4.22	+0.15	3.08	+0.04	4.18	+0.44	3.14	-0.64	6.62	+2.66	6.24	+1.75	4.73	-0.31	4.28	-0.03	6.28	+3.25	0.05	-3.00	1.48	-1.08	2.42	-1.27	46.72	+1.96	
Martin.....	4.44	.....	2.49	.....	4.37	.....	2.99	.....	5.77	.....	5.23	.....	3.97	.....	4.81	.....	6.65	.....	0.22	.....	1.43	.....	2.11	.....	44.48	.....
New Castle.....	4.52	+1.61	.....	.....	3.57	+0.82	2.66	-0.27	6.92	+3.62	4.36	-0.08	2.80	-1.34	3.31	+0.10	5.95	+2.81	0.16	-2.58	0.96	-1.20	2.52	+0.06	.....	.....
Newell.....	3.35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.52	.....	2.17	.....	4.40	.....	0.18	.....	0.96	.....	2.03	.....	.....	.....
Parkers Landing.....	5.87	+2.46	2.27	-0.81	2.50	-1.08	3.13	-0.43	5.94	+2.12	4.09	-0.25	2.09	-2.25	3.42	-0.75	6.72	+3.42	0.13	-2.75	1.21	-1.64	3.30	+0.12	40.67	-1.84	
Pennline.....	3.67	.....	1.97	.....	1.70	.....	3.02	.....	6.72	.....	4.83	.....	4.44	.....	4.47	.....	6.94	.....	0.51	.....	1.38	.....	2.71	.....	42.36	.....
Pittsburgh.....	3.53	+0.66	2.59	-0.16	4.15	+1.14	3.09	+0.19	4.54	+1.24	4.39	+0.50	3.10	-1.32	3.46	+0.28	5.39	+2.91	0.12	-2.24	1.39	-1.16	1.95	-0.78	37.70	+1.55	
Ridgway.....	.....	.....	.....	.....	1.69	-1.68	3.82	+0.96	5.11	+0.93	5.54	+1.11	3.06	-0.91	2.33	-1.11	6.85	+3.97	0.19	-3.03	1.15	-1.49	2.70	+0.16	.....	.....
Saegertown.....	4.10	+0.73	2.78	-0.25	1.87	-1.53	3.62	+0.28	4.63	+0.18	5.43	+1.08	2.66	-1.59	3.05	-1.08	9.46	+5.91	0.54	-3.06	0.75	-2.53	3.72	+0.46	42.61	-1.40	
Saltsburg.....	4.21	+0.43	3.28	+0.29	2.69	-0.50	2.56	-0.77	8.25	+4.83	5.99	+1.97	3.23	-0.72	7.51	+3.61	5.69	+2.36	0.19	-2.98	1.35	-0.75	3.20	-0.10	48.15	+7.67	
Sharon.....	3.39	.....	2.27	.....	2.11	.....	2.45	.....	4.72	.....	5.70	.....	1.95	.....	2.82	.....	7.83	.....	0.41	.....	0.69	.....	2.05	.....	36.39	.....
Somerset.....	4.73	-0.03	4.82	+0.84	8.97	+4.63	3.74	-0.90	7.31	+2.29	7.75	+2.61	5.02	+0.58	4.20	-0.52	4.85	+1.18	0.50	-2.62	1.33	-2.13	2.58	-1.37	55.80	+4.56	
Springdale.....	4.89	+1.21	2.64	+0.12	3.82	+0.41	3.16	-0.12	5.26	+1.70	5.33	+1.07	2.64	-1.15	3.91	-0.40	6.27	+3.08	0.17	-3.15	1.55	-0.48	2.62	-0.55	42.26	+1.74	
Uniontown.....	4.17	+0.32	2.78	-0.35	3.97	+0.01	3.18	-0.57	6.73	+2.66	4.89	-0.02	3.36	-1.70	2.90	-1.93	6.51	+3.33	0.13	-3.08	1.80	-1.31	2.32	-1.28	42.74	-3.92	
Unity Reservoir.....	3.98	.....	3.90	.....	3.73	.....	3.81	.....	7.24	.....	6.77	.....	4.01	.....	5.04	.....	5.28	.....	0.00	.....	2.01	.....	2.71	.....	48.48	.....
Vandergrift.....	4.36	.....	4.21	.....	3.23	.....	3.21	.....	.....	.....	4.40	.....	.....	.....	3.39	.....	4.66	.....	0.20	.....	0.88	.....	.....	.....	.....	.....
Warren.....	4.54	+1.61	2.55	-0.10	2.28	-0.85	3.79	+0.28	4.31	-0.14	5.44	+1.12	2.10	-2.73	3.44	-0.66	7.32	+3.69	0.32	-3.13	1.22	-2.11	3.54	+0.43	40.85	-2.59	
Washington.....	4.19	.....	2.40	.....	.....	.....	.....	.....	5.14	.....	4.55	.....	2.59	.....	2.76	.....	.....	.....	0.26	.....	1.65	.....	2.41	.....	.....	.....
Waynesburg.....	4.50	.....	2.14	.....	5.45	.....	.....	.....	6.42	.....	4.41	.....	4.22	.....	.....	.....	4.97	.....	0.19	.....	1.34	.....	1.87	.....	.....	.....
Westford.....	4.79	.....	2.62	.....	1.24	.....	1.77	.....	4.85	.....	4.37	.....	5.88	.....	3.37	.....	8.54	.....	0.36	.....	1.14	.....	3.03	.....	41.96	.....
West Newton.....	3.60	+0.11	2.14	-0.92	3.86	+0.23	3.14	-0.18	6.02	+2.46	4.42	+0.27	2.50	-1.99	1.78	-2.17	4.71	+2.11	0.08	-2.61	1.61	-0.71	2.21	-1.08	36.07	-4.48	
POTOMAC BASIN																											
Biglerville.....	4.67	.....	3.58	.....	5.04	.....	4.39	.....	5.83	.....	9.75	.....	2.38	.....	2.20	.....	5.60	.....	0.04	.....	1.60	.....	1.76	.....	46.84	.....
Chambersburg.....	4.94	+2.35	3.28	+0.37	5.25	+2.25	4.93	+2.09	5.78	+2.13	6.51	+2.50	4.18	+0.90	3.77	-0.47	4.22	+1.48	0.12	-3.08	1.56	-1.09	1.70	-0.92	46.24	+8.51	
LAKE BASIN																											
Erie.....	3.13	+0.10	1.27	-1.66	1.62	-1.04	3.70	+1.30	4.08	+0.65	2.93	-0.82	3.38	+0.17	2.61	-0.65	7.19	+3.70	0.02	-3.78	1.48	-2.13	2.79	-0.27	34.20	-3.70	
West Bingham.....	3.78	.....	2.18	.....	1.84	.....	4.70	.....	4.06	.....	3.37	.....	1.63	.....	1.63	.....	6.20	.....	0.10	.....	1.34	.....	2.32	.....	33.15	.....

Monthly and Annual Mean Temperatures for the Year 1924, with Departures from the Normal

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Atlantic Drainage.																										
Allentown.....	26.8	-0.5	25.6	-0.2	33.9	-3.4	45.6	-2.6	53.5	-5.9	64.0	-2.2	67.8	-3.3	68.1	-1.5	57.7	-5.0	53.6	+1.7	39.9	-0.9	28.2	-0.8	47.1	-2.0
Altoona.....	33.2	+3.3	29.6	-0.2	39.1	-0.5	48.3	-3.6	57.8	-5.2	67.4	-2.4	72.8	-1.9	73.2	-0.5	62.4	-3.8	56.1	+0.6	43.0	.....	33.0	-0.1	.....	.....
Bethlehem.....	30.0	.....	29.6	.....	38.4	.....	48.6	.....	56.9	.....	67.4	.....	71.5	.....	72.8	.....	61.8	.....	55.3	.....	43.0	.....	32.2	.....	51.5	.....
Biglerville.....	32.8	.....	29.3	.....	39.4	.....	48.5	.....	57.6	.....	68.4	.....	72.4	.....	72.8	.....	62.9	.....	55.6	.....	44.0	.....	34.2	.....	51.5	.....
Bustleton.....	29.5	+1.6	30.2	+0.8	39.1	+1.6	49.7	-2.5	58.4	-3.0	68.6	-2.3	73.2	-1.6	73.2	+0.5	62.6	-2.1	56.2	+3.9	42.2	+1.5	31.4	+0.1	51.2	-0.1
Carlisle.....	28.5	+0.4	27.6	-1.5	37.0	-0.6	46.0	-5.3	55.2	-6.2	66.6	-1.1	71.4	-1.3	71.0	+0.7	60.2	-3.3	52.2	-1.4	41.8	-0.6	29.2	-2.4	48.9	-1.9
Catawissa.....	26.8	+1.4	28.2	+2.3	35.2	-0.6	45.0	-3.9	53.3	-3.9	64.0	-2.1	69.3	-2.1	71.6	-0.6	58.6	-3.4	53.7	+2.3	42.6	+2.7	28.4	-0.6	.....	.....
Center Hall.....	29.6	+0.9	29.0	-1.8	38.0	-0.4	48.5	-1.3	57.3	-3.9	67.6	-1.8	71.0	-3.7	71.6	-0.6	61.2	-4.7	54.1	+1.3	41.2	-0.2	31.8	-1.1	50.1	-1.4
Chambersburg.....	25.4	-1.5	28.6	+1.1	37.0	-0.5	46.2	-2.1	54.2	-5.6	64.0	-3.3	66.6	-4.9	66.2	-3.7	60.4	-2.8	54.7	+1.7	40.4	-0.3	31.4	-1.6	49.7	-2.2
Clearfield.....	29.7	-0.7	28.2	-1.7	38.2	-1.2	47.2	-3.6	56.4	-5.3	67.4	-2.5	72.4	-2.3	71.8	+2.1	61.0	-5.1	52.7	-1.6	39.9	-3.0	31.4	-1.6	49.7	-2.2
Coatesville.....	28.1	.....	27.8	.....	37.2	.....	47.2	.....	55.8	.....	66.3	.....	70.8	.....	70.6	.....	60.1	.....	52.8	.....	41.2	.....	30.4	.....	49.0	.....
Colebrook.....	25.5	-0.3	24.3	-0.4	34.4	-0.6	42.2	-4.9	52.4	-6.3	62.7	-3.5	66.1	-4.1	66.4	-1.5	55.9	-5.5	49.6	-0.4	37.4	-1.8	26.8	-2.3	45.3	-2.6
Emporium.....	31.4	+2.1	29.9	+1.8	39.8	+0.8	48.9	-1.1	58.4	-2.5	68.2	+0.2	73.0	-1.0	72.2	+0.4	62.6	-2.9	54.2	-0.9	43.3	+0.9	33.1	.....	51.2	-0.3
Ephrata.....	20.2	.....	19.2	.....	28.2	.....	38.6	.....	47.7	.....	60.4	.....	63.6	.....	63.2	.....	52.2	.....	44.8	.....	31.8	.....	20.8	.....	41.0	.....
Freeland.....	33.0	+2.2	29.7	0.0	40.2	+1.0	48.2	-1.9	57.0	-4.0	67.4	-0.3	72.0	-1.6	72.4	+1.0	63.0	-1.9	55.0	+0.1	43.3	+0.7	33.2	+0.9	51.2	-0.3
Gettysburg.....	31.4	+2.4	31.2	+0.9	39.3	+0.1	50.0	-0.4	58.2	-3.1	68.8	-0.8	73.0	-1.0	72.8	+1.1	62.6	-2.4	56.4	+4.2	43.6	+2.3	33.1	+1.4	51.7	+0.4
Gordon.....	27.8	+1.4	25.4	+0.1	35.2	-0.7	45.1	-2.8	54.2	-4.3	63.9	-1.3	68.5	-1.7	67.8	-0.4	57.7	-4.1	49.6	-1.1	39.2	+0.2	29.0	+0.5	47.0	-1.1
Gouldsboro.....	29.8	+1.1	27.3	-1.5	36.6	-1.8	47.9	-2.5	55.2	-6.5	65.7	-3.8	70.8	-3.1	69.0	-2.7	59.1	-6.4	52.7	-1.2	39.9	-2.3	30.3	-1.7	48.7	-2.7
Hamburg.....	32.5	+0.4	30.5	-1.2	39.1	-2.5	49.8	-3.2	58.2	-5.7	69.0	-1.6	73.4	-2.0	73.0	-0.6	62.9	-4.3	55.5	-0.6	44.3	+0.1	34.1	+0.3	51.9	-1.8
Hanover.....	30.5	+1.6	29.8	-0.6	39.0	+0.1	49.4	-1.5	57.7	-4.1	68.4	-1.9	73.4	-1.4	73.0	+0.4	61.7	-4.1	56.0	+1.2	43.0	+0.2	32.3	-0.4	51.2	-0.9
Harrisburg.....	27.4	.....	22.8	.....	33.4	.....	43.8	.....	53.2	.....	64.2	.....	68.5	.....	68.4	.....	57.2	.....	48.4	.....	38.0	.....	26.8	.....	46.0	.....
Hawley.....	31.0	.....	30.2	.....	38.4	.....	49.1	.....	57.8	.....	68.4	.....	73.0	.....	73.1	.....	62.8	.....	55.6	.....	43.2	.....	33.0	.....	51.2	.....
Holtwood.....	28.4	-0.2	27.7	-0.7	37.0	-1.3	47.2	-2.4	56.0	-4.7	66.4	-1.8	70.4	-1.8	70.5	-0.2	60.0	-4.3	53.3	+0.8	40.6	-0.9	30.6	-0.9	49.0	-1.5
Huntingdon.....	28.6	.....	27.5	.....	37.5	.....	.....	.....	57.9	-3.4	68.3	-0.6	73.2	-0.7	73.4	+1.5	63.4	-2.8	56.2	+1.6	43.5	+0.3	32.2	.....	51.2	.....
Jersey Shore.....	32.4	+2.8	32.5	+2.7	33.2	-0.8	44.0	-1.8	53.0	-4.5	64.2	-1.0	68.7	-1.5	68.1	0.0	57.8	-3.5	49.2	-1.3	39.1	+0.4	27.6	+0.2	46.3	-0.9
Kennett Square.....	27.3	+2.7	23.1	+0.1	33.2	-0.8	44.0	-1.8	53.0	-4.5	64.2	-1.0	68.7	-1.5	68.1	0.0	57.8	-3.5	49.2	-1.3	39.1	+0.4	27.6	+0.2	46.3	-0.9
Lancaster.....	29.4	+0.4	29.0	+0.3	38.4	-0.2	48.2	-2.3	57.2	-3.8	67.4	-1.9	72.6	-1.0	72.1	+0.1	60.8	-4.4	54.3	+1.6	42.0	-0.2	30.1	-1.8	50.2	-1.1
Lawrenceville.....	29.7	+4.3	28.1	+2.3	37.8	+2.5	48.6	+0.4	57.4	-1.1	67.5	+0.3	72.6	+1.1	72.5	+3.6	61.5	-0.5	53.0	+2.8	41.2	+1.2	30.4	+1.4	50.0	+1.6
Lebanon.....	29.7	.....	28.2	.....	37.9	.....	47.8	.....	56.0	.....	66.0	.....	70.2	.....	70.6	.....	60.2	.....	53.1	.....	41.3	.....	31.0	.....	49.3	.....
Lewisburg.....	29.2	+2.8	26.8	-0.2	37.2	+0.4	47.5	-1.3	55.8	-4.3	66.0	-1.8	70.8	-1.5	70.2	-0.1	60.2	-3.8	53.7	+1.4	41.2	+0.6	29.4	-1.1	49.0	-0.8
Lykens.....	29.9	+2.3	30.4	+3.7	39.6	+1.6	50.2	+0.4	57.1	-3.6	67.0	-0.8	71.8	-0.9	70.9	+0.3	60.6	-3.2	54.1	+1.7	41.2	+0.6	31.0	+0.8	50.3	+0.2
Mauch Chunk.....	23.7	+1.2	20.2	-0.1	29.9	-1.2	40.5	-3.6	49.8	-5.2	60.6	-2.1	64.7	-3.5	65.2	-1.7	55.4	-4.7	49.0	0.0	35.9	-1.0	23.5	-2.1	43.2	-2.0
Mifflintown.....	21.4	-1.5	.....	.....	29.4	-2.6	38.3	-4.7	46.8	-7.9	.....	.....	.....	.....	63.8	-0.4	53.2	-4.9	49.8	+2.4	.....	.....	.....	.....	.....	.....
Montrose.....	26.8	.....	24.6	.....	34.8	.....	44.2	.....	50.3	.....	63.0	.....	67.8	.....	67.5	.....	57.7	.....	49.8	.....	38.2	.....	27.2	.....	46.0	.....
Mt. Pocono.....	32.4	.....	29.6	.....	39.6	.....	49.1	.....	57.2	.....	67.0	.....	72.8	.....	72.4	.....	62.6	.....	55.5	.....	43.0	.....	33.6	.....	51.2	.....
Muncy Valley.....	29.1	.....	27.4	.....	37.6	.....	47.4	.....	56.6	.....	66.8	.....	71.6	.....	71.9	.....	62.6	.....	53.8	.....	40.9	.....	31.8	.....	49.8	.....
Narberth.....	29.9	.....	28.3	.....	38.2	.....	46.9	.....	56.4	.....	66.8	.....	72.8	.....	69.7	.....	61.9	.....	53.2	.....	40.0	.....	30.4	.....	49.5	.....
Neshaminy Falls.....	34.6	+2.0	32.5	-1.4	41.6	+0.8	51.2	-0.9	59.2	-3.7	69.3	-2.1	75.6	-0.6	75.0	+0.2	65.0	-3.0	58.6	+0.8	46.4	+0.7	36.1	-0.2	53.8	-0.3
Palmerston.....	32.9	.....	31.4	.....	40.3	.....	49.4	.....	58.6	.....	69.0	.....	74.8	.....	74.9	.....	64.8	.....	57.8	.....	45.4	.....	35.0	.....	52.9	.....
Philadelphia (a).....	30.8	.....	28.8	.....	38.6	.....	49.0	.....	57.4	.....	67.4	.....	73.0	.....	73.6	.....	62.5	.....	53.4	.....	40.7	.....	32.6	.....	50.6	.....
Philadelphia (d).....	28.6	+1.6	26.2	-2.0	36.7	+0.4	46.8	-1.6	55.2	-4.4	65.4	-2.8	70.6	-1.9	70.2	+3.0	59.4	-4.2	51.9	-0.2	40.0	-1.0	29.8	-1.3	48.4	-1.2
Phoenixville.....	31.3	+1.9	30.0	+1.1	39.4	-0.6	49.0	-1.3	57.2	-5.3	68.0	-1.8	73.3	-2.2	73.6	+1.2	62.0	-4.3	56.3	+1.6	42.6	+1.1	32.9	+0.7	51.4	-0.7
Quakertown.....	29.0	+3.5	25.7	-1.3	35.8	+0.9	46.2	-0.9	55.0	-3.8	65.4	-1.8	69.8	-1.9	69.3	-0.5	59.0	-3.9	51.8	-0.1	40.9	+0.4	28.8	-1.9	48.1	-1.1
Reading.....	29.4	+0.5	27.8	+0.7	38.0	-0.2	47.8	-2.1	56.7	-4.4	66.8															

COOPERATIVE AND RAINFALL OBSERVERS

Stations	Observers	Stations	Observers	Stations	Observers
Allentown.....	John A. Frick.	Greensburg.....	Westmoreland Water Co.	Pottstown.....	William A. Stephan.
Altoona.....	Louis E. Biller.	Greenville.....	J. R. Marks.	Pottsville.....	John H. Strauch.
Ansonia.....	Paul H. Mulford.	Grove City.....	Prof. H. W. Harmon.	Quakertown.....	John E. Benner.
Beaver Dam.....	F. H. McCullough.	Hamburg.....	State Sanatorium.	Reading.....	U. S. Weather Bureau.
Beaver Falls.....	W. Edward Eakin.	Hanover.....	Mrs. Mabel Wolcott.	Renovo.....	J. H. Baird.
Bethlehem.....	R. H. Brennecke, Jr.	Harrisburg.....	U. S. Weather Bureau.	Ridgway.....	Earl Overholser.
Biglerville.....	R. C. Walton.	Hawley.....	J. S. Pennell.	Saegertown.....	J. G. Apple.
Bloersville.....	A. G. Mountz.	Herr's Island Dam.....	Victor W. Phillips.	Saltsburg.....	Thomas M. Duncan.
Bradford.....	B. A. Wise, C. E.	Holtwood.....	H. W. Lowy, C. E.	Scranton.....	U. S. Weather Bureau.
Bradys Bend.....	E. R. Dewey.	Huntingdon.....	Prof. W. J. Swigart.	Selinsgrove.....	Prof. T. C. Houtz.
Brookville.....	John Fawcett.	Indiana.....	Harry Herlinger.	Sharon.....	H. H. Gerber.
Bustleton.....	Agr. Experiment Station.	Ingram.....	W. R. Gormly.	Shawmont.....	Winfield S. Guiles.
Carlisle.....	Clarence E. Miller.	Irwin.....	W. F. Gallagher.	Somerset.....	William M. Schrock, C. E.
Catawissa.....	H. H. Yetter.	Jersey Shore.....	C. B. McCullough.	Springdale.....	James C. Patton.
Cedar Run.....	C. R. Nivison.	Johnstown.....	E. C. Lorentz.	State College.....	C. A. Kern.
Center Hall.....	S. W. Smith.	Kennett Square.....	Wm. P. Mercer.	Sunbury.....	Chas. E. Frymoyer.
Chambersburg.....	Wm. B. Spear.	Ketner.....	J. Nelson.	Towanda.....	Hiram E. Bull, C. E.
Claysville.....	J. L. Melvin.	Lancaster.....	C. K. Wills.	Uniontown.....	Wm. W. Marsteller.
Clearfield.....	E. W. Hess, C. E.	Lansford.....	Lehigh Coal & Nav. Co.	Unity Reservoir.....	Westmoreland Water Co.
Cloe.....	Frank McElwain.	Lawrenceville.....	C. P. Darling.	Vandergrift.....	R. B. Saylor.
Clymer.....	Thomas Fleitz.	Lebanon.....	S. B. Benzing.	Warren.....	Mrs. Anna Simpson.
Coatesville.....	Prof. W. T. Gordon.	Lewisburg.....	Prof. Wm. G. Owens.	Washington.....	G. S. Buchanan.
Colebrook.....	William A. Rorer.	Linesville.....	Water Supply Com.	Waynesburg.....	H. T. McClelland.
Confluence.....	Grant Pyle.	Lloyd.....	M. L. Fish.	Weikert.....	David Libby.
Conshohocken.....	Russell C. Erb.	Lock Haven.....	Chas. Dunn.	Wellsboro.....	George W. Hill.
Coraopolis.....	U. S. Engineer.	Lock No. 4.....	Charles R. Taylor.	West Bingham.....	Frank Johnson.
Corry.....	N. R. Dickson.	Lycippus.....	Westmoreland Water Co.	West Chester.....	Arthur M. Hay.
Creskill.....	John E. Lewis.	Lykens.....	Susquehanna Coal Co.	Westford.....	C. C. Collins.
Derry.....	J. C. Burrows.	Martin.....	George W. Paxton.	West Newton.....	A. B. Adams.
Doylestown.....	Wm. A. Huff, Jr.	Mauch Chunk.....	R. K. Wintermute.	White Haven.....	Mrs. Jane E. Wallen.
Ebensburg.....	Geo. Hart.	Mifflintown.....	Wellington Smith.	Wilkes-Barre.....	Milton Wentz.
Elk Lick.....	D. H. Jones.	Montrose.....	Silas Jagger.	Williamsport.....	George A. Beck.
Emporium.....	J. S. Stevanus.	Mount Pocono.....	Cecil J. Hoskinson.	York.....	C. L. Bott.
Ephrata.....	T. B. Lloyd.	Mount Union.....	C. R. Gracey.	York Haven.....	Water Supply Co.
Erie.....	E. K. Hershey.	Muncy Valley.....	A. H. Boatman.		
Falls Creek.....	U. S. Weather Bureau.	Narberth.....	Charles Decker.		
Forest City.....	J. S. Snell.	Neshaminy Falls.....	N. Springfield Water Co.		
Franklin.....	L. L. Whipple.	New Castle.....	New Castle Water Co.		
Freeland.....	R. A. Fergus.	Newell.....	General Chemical Co.		
Freepoint.....	Theodore Reichmann.	Palmerton.....	Frank G. Breyer.		
George School.....	Mrs. Anna R. Burtner.	Parkers Landing.....	Henry Turk.		
Gettysburg.....	N. W. Swayne.	Penn Line.....	Retta Crumb.		
Girardville.....	Col. E. B. Cope.	Philadelphia.....	U. S. Weather Bureau.		
Gordon.....	Girard Water Co.	Philadelphia.....	Commandant, Navy		
Gouldsboro.....	Capt. J. G. Johnson.	Phoenixville.....	Yard.		
Graterford.....	C. K. Kulp.	Pittsburgh.....	N. Springfield Water Co.		
			U. S. Weather Bureau.		

WEATHER BUREAU AND COOPERATIVE STATIONS, 1924



KEY TO SYMBOLS.

- Meteorological Observations. (Regular Weather Bureau Stations.)
- Meteorological Observations. (Sub Stations.)

51.05
NP

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXX. JANUARY, 1925. No. 1

GENERAL SUMMARY.

Although the month averaged but slightly above normal in precipitation the average snowfall for the State was the greatest in recent years; being nearly three times the normal for January. The most severe storm of the month, that of the 2d, moved up the coast, attended by winds of gale force, and deposited snow to the depth of 20 inches and over throughout most sections east of the mountains, with the exception of extreme southeastern Pennsylvania, where the snow changed to sleet and rain. Considerable drifting resulted, with drifts from 12 to 14 inches high in Luzerne county, and traffic was seriously impeded for several days. Moderate to heavy snows fell also on the 12th, 16th, 20th, 27th, and 30th, with the result that in some of the more remote sections, especially in mountain districts, roads were still impassable at the end of the month. The temperature remained below the seasonal normal during practically the entire month, with a moderate cold wave on the 24th and a severe one on the 28th, when temperatures below zero occurred at nearly every station in the State, with the coldest weather since 1918 reported from several sections, particularly the northern and western counties. The month as a whole was very unfavorable for construction or other outdoor work, but the heavy snow covering served to afford ample protection to winter grains. No floods occurred and many of the streams were closed over during the greater part of the month.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 81 stations, was 25.2°, or 2.7° below the January normal. The highest mean was 32.6° at Uniontown and the lowest was 17.2° at Freeland. The highest temperature recorded during the month was 55° at Newell and Uniontown on the 7th and also at Gettysburg on the 25th, and the lowest was -29° at West Bingham on the 28th. The greatest daily temperature range was 53° at Wellsboro on the 29th.

PRECIPITATION.

The average precipitation for the State, as shown by the records from 123 stations, was 3.49 inches, or 0.35 inch above the January normal. The greatest monthly amount at any station was 6.68 inches at Quakertown, and the least was 1.07 inches at Westford. The greatest amount recorded in any 24 consecutive hours was 2.80 inches at Bethlehem on the 2d. The average snowfall for the State was 29.4 inches. The greatest monthly snowfall reported was 56.5 inches at Freeland. The greatest 24-hour snowfall was 25.8 inches at Pottsville on the 2d.

F. H. A.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total move- ment, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	*Highest	Direction	Date
Erie.....	81.0	295.3	27	79	81	11,864	15.9	50	se.	23
Harrisburg.....	108.4	300.9	36	74	69	4,979	6.7	34	nw.	23
Philadelphia.....	121.8	300.9	41	77	65	8,113	10.9	35	ne.	23
Pittsburgh.....	137.4	298.2	46	80	70	8,984	12.1	53	nw.	22
Reading.....	133.0	301.0	44	75	75	3,978	5.3	29	ne.	20
Scranton.....				88	78	5,804	7.8	34	sw.	22

* For any five-minute period.

COMPARATIVE DATA FOR JANUARY

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	23.2	61	-19	4.19	6.75	2.12	5	11	15
1889.....	29.4	68	-5	3.54	7.02	1.82	12	13	9
1890.....	37.5	77	1	3.04	6.87	1.47	10	8	16
1891.....	30.5	64	-4	3.64	8.74	1.22	6	10	15
1892.....	26.2	66	-28	4.77	8.46	2.08	8	8	15
1893.....	19.0	57	-25	2.85	4.82	1.65	7	10	14
1894.....	32.8	65	-9	2.29	4.71	0.83	9	9	13
1895.....	24.2	58	-17	4.17	6.36	1.83	7	10	14
1896.....	27.6	60	-15	1.43	2.40	0.52	8	9	14
1897.....	25.6	74	-25	2.15	3.54	0.87	8	8	15
1898.....	30.7	67	-16	4.25	7.57	1.32	6	8	17
1899.....	26.6	66	-21	3.05	4.84	0.82	12	8	11
1900.....	29.8	63	-8	2.64	4.37	1.36	8	9	14
1901.....	29.1	59	-10	2.22	4.41	0.74	8	8	15
1902.....	25.6	58	-13	2.80	5.15	1.00	8	9	14
1903.....	26.9	68	-13	3.31	5.09	1.49	6	8	17
1904.....	20.0	66	-42	3.55	5.82	2.08	10	6	15
1905.....	23.8	69	-21	3.70	7.55	1.72	8	8	15
1906.....	35.0	85	-4	2.53	5.28	0.76	10	8	13
1907.....	30.0	75	-23	4.36	9.69	2.14	6	7	18
1908.....	28.4	69	-18	2.68	5.33	1.46	12	8	11
1909.....	31.2	72	-19	2.92	4.25	1.58	9	6	16
1910.....	27.2	56	-22	5.55	8.91	3.27	7	5	19
1911.....	31.6	70	-5	3.54	6.38	1.25	8	5	18
1912.....	18.6	57	-35	1.92	3.72	0.47	8	7	16
1913.....	36.5	65	3	4.95	8.90	1.51	9	6	16
1914.....	30.2	81	-27	3.37	5.77	1.40	7	7	17
1915.....	28.3	62	-26	5.56	9.69	2.43	10	6	15
1916.....	34.2	76	-12	2.42	5.33	0.20	9	8	14
1917.....	27.9	69	-18	3.60	6.69	1.06	11	8	12
1918.....	16.2	57	-29	3.51	7.28	1.20	10	8	13
1919.....	32.0	64	-15	2.53	2.10	0.34	14	8	9
1920.....	20.9	59	-23	2.47	5.35	1.00	9	8	14
1921.....	31.0	63	-13	2.58	5.23	0.89	12	7	12
1922.....	25.0	62	-19	2.26	4.46	1.15	14	7	10
1923.....	29.1	62	-17	4.26	7.74	1.91	6	6	19
1924.....	28.1	65	-13	4.34	6.29	1.70	11	8	12
1925.....	25.2	55	-29	3.49	6.68	1.07	11	7	13

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.3	3.9	6	2.4	1	18
Phillipsburg.....	Delaware.....	.....	.....	.....	.....	.....	22
Mauch Chunk.....	Lehigh.....	.....	.....	.....	.....	.....	12
Wilkes-Barre.....	Susquehanna.....	3.2	4.0	1	.....	.....	20
Williamsport.....	Susquehanna.....	1.2	.....	.....	0.7	19	20
Harrisburg.....	Susquehanna.....	.....	.....	.....	.....	.....	17
Freeport.....	Allegheny.....	.....	.....	.....	.....	.....	22
West Newton.....	Youghiogheny.....	1.4	13.6	28	0.7	16	20
Lock No. 4.....	Monongahela.....	15.7	21.5	24	13.6	13	31
Pittsburgh.....	Ohio.....	8.7	11.4	19	7.6	11	22
Beaver Dam.....	Ohio.....	7.5	11.6	16	5.3	1	30

Climatological Data for January, 1925

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy		Cloudy	Prevailing direction of wind
Atlantic Drainage.																				
Allentown	Lehigh	254	13	23.6	.....	45	22	-6	28	44	5.80	+2.15	2.30	43.2	10	6	21	4	e.	John A. Frick.
Altoona	Blair	1,615	38	25.0	-2.3	50	7	-9	28	35	2.25	-0.25	0.59	44.0	11	13	5	13	w.	Lewis E. Biller.
Bethlehem	Northampton	295	41	26.5	-3.4	46	25	-8	28	38	6.12	+2.54	2.80	.....	7	.....	.....	.....	ne.	Rev. R. H. Brennecke, Jr.
Biglerville	Adams	652	3	27.0 ^a	.....	51 ^a	25	-5 ^a	28	37 ^b	3.26	.....	0.80	27.2	8	10	5	16	.....	R. C. Walton.
Bustleton	Philadelphia	125	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Experiment Station.
Carlisle	Cumberland	467	58	26.5	-1.4	48	22	-5	28	40	4.39	+1.27	1.13	41.5	8	16	1	14	ne.	Prof. C. E. Miller.
Catawissa	Columbia	520	28	22.6	-5.5	45	8	-20	28	36	3.46	+0.14	1.13	35.8	9	16	4	11	.....	H. H. Yetter.
Center Hall	Center	1,272	29	25.4	0.0	48	4	-15	28	45	3.22	+0.67	0.82	33.0	6	5	7	19	.....	S. W. Smith.
Chambersburg	Franklin	580	25	26.3	-2.4	52	25	-13	28	39	4.24	+1.65	0.90	29.3	9	10	6	15	ne.	William B. Spear.
Clearfield	Clearfield	1,120	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. W. Hess.
Coatesville	Chester	380	37	25.0	-5.4	47	22	-13	28	41	5.30	+1.33	1.77	27.1	11	5	13	13	w.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	15	25.2	.....	47	22	-10	28	33	5.18	+1.77	1.84	38.8	11	14	2	15	nw.	Wm. A. Rorer.
Emporium	Cameron	1,050	37	22.2	-3.6	45	7	-21	28	44	3.71	+0.18	1.00	32.5	11	9	7	15	w.	T. B. Lloyd.
Ephrata	Lancaster	380	24	.....	.....	45	8	-14	28	44	4.94	+1.95	1.63	33.0	7	8	11	12	e.	E. K. Hershey.
Freeland	Luzerne	1,970	10	17.2	.....	42	26	-20	28	42	5.56	.....	1.27	56.5	12	7	11	13	sw.	Theo. Reichmann.
George School	Bucks	190	18	27.4	-3.4	48	25	-8	28	36	6.01	+2.94	2.17	23.3	11	18	4	9	w.	Prof. N. W. Swayne
Gettysburg	Adams	600	51	29.4	+0.4	55	25	-5	28	46	3.73	+0.59	0.88	31.5	12	7	10	14	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	21	22.9	-3.5	45	25 [†]	-19	28	48	4.08	+0.15	1.66	48.0	7	13	5	13	w.	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875	1	19.2	.....	45	26	-18	28	36	3.27	+0.03	1.26	31.5	9	14	7	10	w.	Gustav Holtz.
Hamburg	Berks	535	32	23.6	-5.1	45	25	-8	28	37	3.51	-0.25	1.60	33.0	11	15	5	11	w.	State Sanatorium.
Hanover	York	600	21	29.0	-3.9	54	25	-5	28	35	4.26	+0.94	1.25	27.3	11	15	3	13	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	55	27.6	-1.4	47	22	-1	28	34	3.34	+0.52	0.94	27.2	9	6	6	19	ne.	U. S. Weather Bureau.
Hawley	Wayne	900	6	20.5	.....	44	26	-19	28	43	3.41	.....	1.40	27.7	8	14	3	14	w.	J. S. Pennell.
Holtwood	Lancaster	200	10	28.1	.....	50	22	-5	28	36	.....	.....	26.5	.....	7	2	22	.....	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	37	25.4	-3.2	50	25	-19	28	42	3.64	+0.32	1.25	34.7	10	12	6	13	w.	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	5	23.1	.....	43	22	-22	28	39	2.95	.....	0.72	38.0	11	17	1	13	.....	C. B. McCullough.
Kennett Square	Chester	340	53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster	Lancaster	255	37	26.0	-3.6	49	22	-20	28	50	3.19	-0.06	1.50	30.0	7	15	10	6	n.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	27	22.8	-1.8	47	27	-21	28	47	3.40	+1.36	1.00	39.0	9	12	7	12	.....	C. P. Darling.
Lebanon	Lebanon	469	84	24.5	-4.5	48	31	-2	28	47	3.52	-0.07	1.24	38.0	11	15	6	10	ne.	S. B. Benzing.
Lewisburg	Union	450	50	23.0	-2.4	45	21	-16	28	44	3.65	+0.68	0.87	36.9	10	10	4	17	w.	Prof. W. G. Owens.
Lock Haven	Clinton	580	36	24.6	-2.8	48	17 [†]	-19	28	40	3.04	-0.23	1.58	30.0	8	15	1	15	sw.	Charles Dunn.
Lykens	Dauphin	680	10	24.8	.....	50	22	-17	28	47	3.67	.....	0.99	30.6	8	17	6	8	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	34	24.3	-3.1	45	22	-9	28	37	4.76	+0.98	1.92	44.5	10	10	7	14	w.	R. K. Wintermute.
Mifflintown	Juniata	445	21	25.9	-1.7	50	25	-14	28	40	2.82	-0.36	0.87	30.5	10	13	5	13	w.	Wellington Smith.
Montrose	Susquehanna	1,720	22	18.8	-3.7	40	22 [†]	-25	28	44	2.55	-0.16	0.50	32.0	9	9	7	15	s.	Silas Jagger.
Mt. Pocono	Monroe	1,658	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	13	22.3	.....	45	22	-14	28	39	2.77	-0.55	0.65	27.5	8	8	3	20	s.	A. H. Boatman.
Narberth	Montgomery	300	6	28.4	.....	48	25	-4	28	30	5.30	.....	2.01	16.3	12	10	4	17	sw.	Charles Decker.
Neshaminy Falls	Bucks	60	36	24.9	.....	50	25	-10	29	49	5.34	.....	2.33	12.7	10	11	6	14	ne.	North Springfield Water Co.
Palmerton	Carbon	398	8	22.8	.....	48	25	-19	28	40	.....	.....	.....	39.0	.....	19	5	7	ne.	F. G. Breyer.
Philadelphia (a)	Philadelphia	114	54	31.8	-0.6	50	22	3	28	36	4.68	+1.27	1.73	11.6	10	8	7	16	ne.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	9	30.4	.....	45	22	3	28	30	3.36	.....	0.87	12.9	8	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	.....	31.2	.....	47	22	1	28	34	4.38	.....	1.55	.....	9	9	6	16	ne.	Atlantic Refining Co.
Phoenixville	Chester	100	14	24.9	.....	44	22 [†]	-5	28	38	5.29	.....	1.92	48.0	10	17	8	6	w.	North Springfield Water Co.
Quakertown	Bucks	496	40	23.0	-4.0	44	22	-9	28	41	6.68	+3.19	2.75	36.8	10	10	8	13	w.	John E. Benner.
Reading	Berks	325	55	27.6	-1.8	46	25	-4	28	35	3.83	+0.31	1.48	36.8	8	7	10	14	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	30	24.1	-2.5	46	26	-11	28	28	2.95	+0.15	0.89	27.0	11	8	7	16	nw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	35	23.0	-5.9	43	17 [†]	-12	24	38	3.81	+0.69	1.10	21.0	7	8	13	10	w.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	29	28.5	.....	46	22 [†]	-1	28	31	4.14	+0.89	1.61	.....	11	10	8	13	nw.	W. S. Guiles.
State College	Center	1,217	40	23.8	-2.5	45	25	-14	28	36	3.55	+0.57	1.45	33.4	9	7	10	14	w.	C. A. Kern.
Towanda	Bradford	754	30	21.4	-3.8	44	26	-24	28	40	3.03	+0.93	1.05	30.5	10	6	6	19	e.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	59	20.8	-3.5	52	27	-25	28	53	3.11	+0.54	2.00	38.5	8	14	6	11	w.	George W. Hill.
West Chester	Chester	455	87	26.8	-3.4	46	22	-5	28	32	5.10	+1.26	1.65	16.0	9	15	3	13	nw.	Arthur M. Hay.
Williamsport	Lycoming	521	38	24.1	-3.2	44	22	-16	28	37	2.33	-0.67	0.75	33.5	9	12	1	18	ne.	George A. Beck.
York	York	400	37	26.2	-3.1	50	22	-21	28	45	4.12	+1.13	1.49	35.0	12	13	5	13	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	32	28.5	.....	48	7 [†]	-9	28	37	2.56	-0.31	0.70	.....	13	.....	.....	.....	.....	U. S. Engineer.
Bradford	McKean	1,427	10	21.8 ^d	.....	43 ^d	7 [†]	-24 ^d	28	52 ^d	.....	.....	.....	.....	.....	.....	.....	.....	.....	City Engineer.
Bradys Bend	Armstrong	930	7	19.4	.....	40	31	-28	28	52	2.78	.....	0.49	32.7	14	9	9	13	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	34	18.4	-6.4	44	7	-27	28	51	3.07	-0.30	1.12	33.5	7	22	7	2	.....	John Fawcett.
Claysville	Washington	1,150	21	29.2	-1.7	53	7	-18	28	41	2.56	-0.97	0.56	14.0	11	9	9	13	n.	J. L. Melvin.
Corry	Erie	1,430	13	20.4	.....	40	31	-18	28	44	2.62	.....	0.49	29.7	18	11	7	13	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	28	29.7	-0.7	54	7	-15	28	45	3.83	-0.08	1.18	.....	13	3	22	6	sw.	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	7	25.0	.....	49	7	-12	28	43	.....	.....	.....				

[illegible]

Continued on page 4

Daily Precipitation for January, 1925—Continued from page 3

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Creekside.....	Allegheny.....																																
Derry.....	Conemaugh.....	.04	.05	T					.07				.02		.20			.28	.38			1.18		*				.13	.29		.94	.25	3.83
Ebensburg.....	Conemaugh.....	*																															3.40
Elk Lick.....	Youghiogheny.....				.50				.10			.40		.30			.50				.40						.30			.90			3.23
Falls Creek.....	Allegheny.....	.24	T			.11			.30					.56				.43			.49							.14		.96			2.44
Franklin|||.....	Allegheny.....	.30	T			.09			.16				.14	.18	T			.21			.39	.15		.06				.07		.69			3.29
Freeport|||.....	Allegheny.....	.38	.09				T					.28	.11					.44			.58							.73		.03	.65	T	3.38
Greensburg.....	Youghiogheny.....	.32	T	.01	T				.05			.02	.23	.30			.25	.19			.71			.01		.08	.18		.79	.24			1.93
Greenville.....	Beaver.....	.26			.62												.26			.25		.08			.02				.44				2.45
Grove City.....	Beaver.....	.31	T	T					.20			.12	.29				.25	.04			.55		.05		.05	.10			.44	.05			2.65
Herr's Isl. Dam|||.....	Ohio.....	.40	.02	T	T	T			T			.28	.21	T			.02	.24			.54	.03		.01	T		T	.23			.67		3.05
Indiana.....	Conemaugh.....	.40	T	T					.05			T	.18	.30	T			.20	.28			.55		T	T		.05	.20		.52	.32		2.98
Ingram.....	Ohio.....	.47	T	.01	*	T			.02			.07	.33	.01	T		.22	.04			.63		T	.01		.05	.27		.60	.25			2.25
Irwin.....	Youghiogheny.....	.14	.04						.04			T	.16	.06			.47	.10			.73				.12	.07			.32	T			3.21
Johnstown.....	Conemaugh.....	T	.23	.01	.02	T			T			.10	.30	.10	T		.15	.27	T	.02	.68			.04		.02	.19		.95	.13			4.73
Ketner.....	Allegheny.....	.32	.03			.06			.09			.23	.15	.03			.10	.09			.55				.07	.06			.78	.09			2.65
Kregar|||.....	Youghiogheny.....	.13				.05			.05			.20	.10	.40			T	.62	.10		1.15	.16		.01			.36	.09	.31	.05			4.73
Linesville|||.....	Beaver.....	.35	.03	.02		.06			.33			T	.06	.08	.05			.13			.33		.08			.10				.27			1.89
Lock No. 4|||.....	Monongahela.....	.35	.01	.01					.02			.17	.24	T			.02	.37	T		.55	.04		T		T	.33	.02		.86			2.99
Lycippus.....	Conemaugh.....	.11										.21	.17				.25	.45			1.58				.10	.30			.51	.17			3.85
Martin.....	Monongahela.....	.05	T	T	T				.01			.10	.09	.01	T		.47				.63	.03		T		.02	.40	.12	T	.42			2.35
New Castle|||.....	Beaver.....																*				.32					.02	.74		1.04	.06			3.72
Newell.....	Monongahela.....	1.08										.46															.02	.74		1.04	.06		3.75
Parkers Landing|||.....	Allegheny.....	.50	T	T		.10			.10			.40	.25	.05	T	.10	.45			.40		.20		T	.20					1.00	T		1.37
Pennline|||.....	Beaver.....	.28	.04	.02	T	.01			.15			T	.04	.11	.03	T		.06		.01	.25		.03		.06	.02			.26				3.16
Pittsburgh***.....	Ohio.....	.10	.37	.01	T	T		T	.02			.25	.15	.22			.26	T		.20	.43		.01	T		.07	.24		.83	T			3.10
Ridgway.....	Allegheny.....	.33										.39	.13							1.10						.24		.91					3.90
Saltsburg|||.....	Conemaugh.....	.48	.08		.03				.05			.32	.35	.07			T	.43			.62	.10		.02		.31	.02	T	1.02				2.02
Saegertown.....	Allegheny.....	.38							.50			.10	.12				T		T		.10	.34		.05					.30	.05			5.27
Sharon|||.....	Beaver.....	.12		T	T	.02			.14			.14	.12				.10	.02			.43		T			.02				.38			1.49
Somersets.....	Youghiogheny.....	.50	.21								.25	.40	.25	.18	.25	.33	.50			1.00			.20						1.20				3.03
Springdale|||.....	Allegheny.....	.40	.05	.01					.05			.33	.35				.45			.45	.03		T		.02	.30	T		.95				3.39
Uniontown.....	Monongahela.....	.19	.01						.03			.03	.14	.15			.34	.32			.64				.12	.48			.58				3.67
Unity Reservoir|||.....	Youghiogheny.....	.15	.15						.08			.22					.60	.27			.73				.15	.32			.80	.20			3.06
Vandergrift.....	Conemaugh.....	.52										.25	.30				.36	.13			.70				.08	.12			*	.60			2.53
Warren.....	Allegheny.....	.22				.30			.20			.24	.04	.07			.08		.03		.33		.04		.06	.02		.90					2.56
Washington.....	Ohio.....	.08	.11	.01	.01				T			.23	.03	.20			.37	T	T	.39	.08		.01	T		.14	.23			.67			1.77
Waynesburg|||.....	Monongahela.....											.06	T				*			.12			.08	T					.18			2.88	
Westford|||.....	Beaver.....	.15		T		.10			.38			.06	T								.12			.08	T					.18			1.07
West Newton|||.....	Youghiogheny.....	.29										.22	.27					.41			.70						.41				.68		2.98
Lake Drainage.																																	
Erie***.....	Lake Erie.....	.16	.21	T	T	T	.06	.09				.03	.03	.04			.02		T	T	.20			T		.02	T		.33	T			1.19
West Bingham.....	Genesee.....	.20	T		.05							.20	.20					.03			.40					T			.90	.90			2.88

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurement.

T.(trace) when precipitation is less than .01 inch.

§ Incomplete or missing.

†† Post Office address:—Greensburg

† Daily amounts inconsistent.

Daily Temperatures for January, 1925

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	26	29	33	42	40	37	32	43	35	30	38	37	33	30	40	42	37	24	35	37	45	19	26	44	41	41	12	28	35	41	34.3	
	Minimum	15	15	17	28	16	16	11	11	16	16	23	14	15	16	4	7	15	18	15	22	10	10	-1	0	26	12	-6	-5	9	22	13.0	
Altoona.....	Maximum	27	26	30	34	31	33	50	45	37	30	29	23	32	25	37	32	44	36	27	33	36	41	33	28	45	46	45	14	17	27	45	33.5
	Minimum	10	18	23	29	25	16	15	30	14	19	23	17	22	17	6	17	32	27	8	18	12	19	6	-1	18	33	11	-9	6	15	15	16.5
Beaver Dam.....	Maximum	30	35	36	37	32	40	48	47	48	37	37	35	36	28	39	38	42	36	32	38	41	41	38	45	46	43	41	21	27	30	43	37.6
	Minimum	16	28	32	31	24	24	18	31	12	12	24	23	22	18	7	21	33	27	15	29	10	24	11	8	34	31	6	-9	16	14	10	19.4
Bradford.....	Maximum	.....	.....	35	28	32	43	43	34	34	25	.....	30	21	32	39	39	29	28	31	35	35	25	38	41	42	38	28	25	28	39	33.24	
	Minimum	.....	.....	24	19	21	4	22	8	-3	12	.....	12	12	-11	12	24	17	-2	20	8	20	0	-14	28	34	0	-24	5	17	18	10.54	
Bradys Bend.....	Maximum	28	33	35	35	29	36	38	38	28	27	28	31	31	24	18	35	35	34	28	31	31	33	33	38	38	39	38	20	23	24	40	31.6
	Minimum	-3	19	25	29	18	19	0	18	-4	-1	13	15	16	6	-14	0	28	20	-6	19	-8	3	2	-14	20	24	-1	-28	7	10	-8	7.2
Brookville.....	Maximum	26	32	35	33	34	34	44	32	32	36	28	31	32	25	31	39	36	31	29	33	34	38	30	38	41	40	26	18	23	26	41	32.5
	Minimum	-1	22	21	25	22	0	-1	-4	-7	0	15	20	11	-15	-16	7	29	6	5	11	-10	5	-11	-13	30	14	-20	-27	12	6	-4	4.3
Carlisle.....	Maximum	28	32	34	40	43	44	37	45	37	29	30	27	32	33	34	34	46	42	36	46	38	48	42	25	45	41	39	18	29	36	45	36.6
	Minimum	18	19	28	26	11	15	4	12	12	24	27	18	23	23	7	17	32	35	18	21	18	8	14	-3	12	28	10	-5	-2	22	15	16.4
Catawissa.....	Maximum	35	33	36	38	35	38	42	45	42	30	30	32	35	32	24	35	42	43	34	30	44	43	23	24	44	43	26	14	23	38	42	34.7
	Minimum	8	15	21	28	19	11	8	11	6	3	17	16	20	11	-8	7	32	24	9	16	12	7	-1	-11	10	26	4	-20	-8	14	15	10.4
Chambersburg.....	Maximum	29	30	32	40	42	41	45	42	39	30	26	38	31	36	34	42	41	34	37	37	48	40	27	52	39	37	13	21	34	40	35.7	
	Minimum	20	19	26	26	21	14	8	16	14	24	26	18	23	24	6	17	33	33	19	21	15	9	15	2	19	29	12	-13	-6	20	13	16.9
Claysville.....	Maximum	34	38	35	34	32	40	53	48	40	38	38	36	38	29	42	44	44	39	33	36	43	40	37	46	51	47	42	23	29	30	44	38.7
	Minimum	17	28	31	27	23	27	23	29	11	20	25	25	22	16	12	27	33	28	16	29	9	25	9	11	34	27	6	-18	16	10	16	19.8
Clearfield.....	Maximum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coatesville.....	Maximum	30	26	35	35	40	36	40	40	35	30	32	28	38	30	30	37	42	36	30	33	34	47	37	25	45	43	40	8	31	33	40	34.4
	Minimum	20	20	25	20	8	14	9	21	13	26	26	20	25	11	7	14	34	27	17	24	17	11	10	0	21	26	7	-13	-10	24	14	15.7
Corry.....	Maximum	28	31	31	32	27	25	31	31	21	23	22	29	29	20	21	39	38	27	27	27	31	31	24	36	36	35	26	15	25	28	40	28.6
	Minimum	3	21	25	25	19	21	16	18	7	1	15	15	15	13	-12	12	24	18	11	22	2	22	5	-8	28	25	-3	-18	10	14	16	12.3
Emporium.....	Maximum	28	30	36	36	30	35	45	41	33	34	27	30	31	23	20	34	40	34	29	33	34	40	22	33	40	41	34	19	23	32	43	32.6
	Minimum	-1	20	30	29	26	14	4	25	1	1	15	18	20	-2	-18	4	33	22	15	22	10	6	-2	-11	30	32	-2	-21	5	20	20	11.8
Erie.....	Maximum	30	32	35	33	29	34	40	33	35	35	26	37	37	24	31	40	34	28	26	32	38	39	17	41	39	45	9	16	27	33	44	32.2
	Minimum	7	26	27	27	24	28	32	25	16	22	13	13	21	12	9	30	24	21	14	25	14	17	5	5	32	9	-2	-4	16	16	23	17.6
Franklinss.....	Maximum	31	33	35	35	32	39	46	33	37	38	34	36	31	24	25	41	36	32	31	33	40	39	17	41	43	45	31	25	25	32	45	34.4
	Minimum	6	6	26	29	24	22	12	16	4	4	8	18	22	11	-9	-9	16	25	3	3	2	3	9	-9	-8	31	1	-18	8	15	6	8.9
Gettysburg.....	Maximum	31	31	34	39	49	43	41	48	43	33	31	28	41	36	36	33	45	45	38	42	42	51	42	29	55	53	45	41	35	38	46	40.1
	Minimum	22	18	26	26	25	18	2	27	16	27	27	17	23	22	10	19	32	33	18	22	17	17	15	0	22	31	10	-5	-2	22	20	18.6
Greensburg.....	Maximum	31	35	36	36	31	38	51	48	40	37	33	35	35	28	39	43	44	37	33	35	40	39	34	45	49	46	45	23	26	26	42	37.4
	Minimum	15	27	33	29	28	27	25	31	19	23	25	24	21	14	28	34	26	16	28	15	27	32	9	37	39	9	-12	15	16	21	17	21.7
Grove City.....	Maximum	34	32	33	33	31	38	43	42	36	37	35	32	35	25	38	38	40	35	35	34	39	39	32	41	39	41	34	29	24	30	40	35.3
	Minimum	10	24	28	29	22	24	23	22	2	10	20	19	17	-3	20	30	21	3	25	34	32	13	9	28	31	4	-5	11	14	15	17.7	
Hamburg.....	Maximum	32	26	32	32	32	40	34	42	37	31	30	25	36	30	29	33	36	42	34	30	31	44	43	28	45	44	38	20	30	31	40	34.1
	Minimum	16	20	22	28	8	6	4	19	12	24	17	16	23	5	-3	8	31	30	15	16	19	7	9	-7	15	30	18	-5	16	22	14.0	
Harrisburg.....	Maximum	28	29	33	40	41	38	36	44	37	30	31	25	36	32	34	35	42	42	38	38	47	26	26	44	42	40	15	25	36	41	34.8	
	Minimum	22	19	29	29	20	24	14	26	21	25	22	18	25	21	14	21	34	28	22	21	25	22	15	5	23	32	6	-1	4	25	22	20.4
Hawley.....	Maximum	26	22	32	35	35	30	39	39	32	26	25	24	36	29	27	29	38	32	30	27	34	41	38	28	35	44	34	17	20	29	38	31.3
	Minimum	9	14	21	30	20	11	4	22	9	1	13	20	14	-14	3	28	20	7	15	15	1	1	-15	19	20	6	-19	-12	19	11	9.7	
Huntingdon.....	Maximum	29	30	32	38	36	36	37	40	38	33	31	27	34	28	36	33	43	40	35	37	43	46	37	30	50	43	41	20	32	47	35.5	
	Minimum	13	20	26	29	28	10	8	25	8	13	26	21	24	22	2	13	32	32	13	21	11	4	13	-9	13	29	12	-19	-1	18	15	15.3
Indiana.....	Maximum	32	32	35	35	31	37	50	48	42	38	34	30	35	28	38	39	42	38	31	35	41	40	22	43	44	44	43	27	22	28	40	36.3
	Minimum	10	23	30	30	21	25	14	29	10	22	24	20	22	18	3	12	33	27	11	25	5	20	8	3	34	34	7	-9	12	15	15	17.8
Johnstown.....	Maximum	28	33	38	37	32	37	52	42	40	36	32	32	35	27	39	43	44	39	29	35	40	41	31	44	48	46	38	20	29	45	36.6	
	Minimum	18	24	31	31	28	25	16	30	20	25	24	23	25	19	10	19	36	25	18	23	15	21	11	4	36	36	11	-7	13	17	20	20.9
Lancaster.....	Maximum	36	30	35	43	39	40	40	45	43	33	32	31	40	34	36	34	42	39	33	34	38	49	42	28	45	42						

APR 2 1925

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXX.

FEBRUARY, 1925.

No. 2

GENERAL SUMMARY.

For the State as a whole this was the warmest February since that of 1909, and for the southeastern counties it was the warmest on record. The unusually heavy snowfall of January left a deep blanket over the State except in the southeastern counties where rain and sleet froze and formed a coating of almost solid ice from four to six inches in thickness. Melting proceeded at a fairly rapid rate during the first ten days of February and the ice broke in most of the streams. The melting snows were supplemented by moderately heavy rains on the 11th, and the streams rose to flood stages in some places, but with no material damage reported. The remaining snow and ice practically disappeared at this time, and as there was little or no snow fell in February except in a few western and northern counties the fields were mostly bare during the remainder of the month. Frost remained in the subsoil until about the 20th of the month, and the top soil was very soft and muddy. Dirt roads were almost impassable, and no hauling could be done in the fields. Near the end of the month there was some plowing done, and many farmers improved the time by hauling manure. The wheat fields were green at the end of the month, and were generally looking fair to good. Mild temperatures during the last decade caused fruit buds to swell, and many growers feared that heavy losses would result, but the month closed with a cold wave in time to seal the buds before the swelling had advanced to a critical stage. Previous to the cold wave the grass had made a good start and lawns were generally green. A slight earthquake occurred on the 28th, and was reported by observers at several stations. The tremors were not heavy enough to be noted generally.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 82 stations, was 35.6°, or 8.1° above the February normal. The highest mean was 42.2° at the Philadelphia Weather Bureau and at Germantown, Philadelphia. The lowest mean was 27.4° at Freeland. The highest temperature recorded during the month was 71° at Newell and Uniontown on the 9th, and the lowest was -11° at Saegerstown on the 3d. The greatest daily temperature range was 48° at Lewisburg on the 5th.

PRECIPITATION.

The average precipitation for the State, as shown by the records from 132 stations, was 2.16 inches, or 0.71 inch below the February normal. The greatest monthly amount at any station was 4.61 inches at Hamburg, and the least was 0.55 inch at Jersey Shore. The greatest amount recorded in any 24 consecutive hours was 2.61 inches at Hamburg on the 11th. The average snowfall for the State was 2.1 inches. The greatest monthly snowfall reported was 17.6 inches at Somerset. The greatest 24-hour snowfall was 10.0 inches at Gouldsboro on the 26th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Total move- ment, in miles	Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Velocity, in miles per hour			
				8 a m	8 p m		Average	*Highest	Direction	Date
Erie.....	79.3	296.6	27	80	76	10,073	15.0	52	w.	26
Harrisburg.....	139.9	299.7	47	76	71	4,149	6.2	32	w.	26
Philadelphia.....	169.9	299.7	57	75	64	5,735	8.5	33	nw.	26
Pittsburgh.....	154.4	309.5	52	77	70	6,770	10.1	44	w.	26
Reading.....	158.0	300.0	53	84	80	4,298	6.4	36	nw.	26
Scranton.....	.....	.....	.....	87	79	4,634	6.1	39	sw.	27

* For any five-minute period.

COMPARATIVE DATA FOR FEBRUARY

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	28.4	63	-31	2.50	4.97	0.89	7	11	11
1889.....	23.0	60	-27	1.96	3.87	0.97	7	9	12
1890.....	37.0	79	0	4.32	6.39	2.28	6	8	14
1891.....	34.8	70	-7	4.61	8.29	2.13	6	8	14
1892.....	31.6	62	-18	1.75	4.48	0.43	7	7	15
1893.....	27.3	60	-16	5.92	9.28	2.92	6	8	14
1894.....	27.6	64	-24	3.53	5.59	1.62	8	9	11
1895.....	20.2	60	-26	1.22	3.47	0.17	10	10	8
1896.....	29.4	65	-21	4.90	9.08	1.94	9	7	13
1897.....	30.6	67	-14	3.28	6.67	1.04	7	8	13
1898.....	29.4	72	-16	2.23	4.05	0.96	8	8	12
1899.....	22.7	67	-39	4.05	10.22	0.98	8	7	13
1900.....	27.1	81	-17	4.22	7.75	1.00	8	6	14
1901.....	21.7	57	-22	0.96	2.75	0.27	10	9	9
1902.....	23.9	64	-24	3.99	7.43	0.45	9	7	12
1903.....	30.5	68	-17	4.49	6.13	1.30	10	7	11
1904.....	21.8	68	-27	2.41	4.80	0.92	10	7	12
1905.....	20.8	59	-25	1.70	2.83	0.44	10	8	10
1906.....	28.0	79	-21	1.70	3.80	0.36	12	7	9
1907.....	22.8	56	-20	1.91	4.37	0.66	12	7	9
1908.....	24.8	64	-29	4.65	8.15	2.51	10	7	12
1909.....	35.8	73	-9	4.84	9.86	2.40	6	7	15
1910.....	26.6	65	-22	3.59	5.39	1.41	9	7	12
1911.....	31.0	66	-8	2.27	3.76	0.85	7	6	15
1912.....	23.7	69	-27	2.20	4.05	0.37	11	8	10
1913.....	27.4	67	-9	1.84	4.61	0.88	12	5	11
1914.....	21.8	65	-27	2.78	6.20	1.30	11	6	11
1915.....	33.3	73	-9	3.90	6.95	1.85	9	5	14
1916.....	25.7	67	-22	3.08	5.86	1.30	8	7	14
1917.....	25.6	68	-29	1.46	3.37	0.35	9	9	10
1918.....	28.2	69	-34	2.46	4.82	0.55	10	8	10
1919.....	32.0	66	-7	2.23	4.27	1.03	12	6	10
1920.....	25.6	62	-20	2.44	5.23	0.70	9	8	12
1921.....	32.8	76	-15	2.59	4.79	1.41	8	8	12
1922.....	33.0	74	-19	1.99	3.61	0.67	9	9	10
1923.....	24.6	58	-20	2.16	4.86	0.65	8	8	12
1924.....	26.9	70	-25	2.94	5.16	1.27	11	7	11
1925.....	35.6	71	-11	2.16	4.61	0.55	11	7	10

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	5.5	14.9	12	3.3	2	18
Phillipsburg.....	Delaware.....	8.1	21.0	12	3.0	10	22
Mauch Chunk.....	Lehigh.....	5.2	7.3	13	4.2	28	12
Wilkes-Barre.....	Susquehanna.....	10.0	25.0	13	2.5	1	20
Williamsport.....	Susquehanna.....	7.3	18.5	12	1.3	4	20
Harrisburg.....	Susquehanna.....	9.4	18.8	13	4.1	2	17
Freeport.....	Allegheny.....	12.0	22.0	12	5.0	22	22
West Newton.....	Youghiogheny.....	3.9	14.3	9	2.0	23	20
Lock No. 4.....	Monongahela.....	17.4	23.7	16	14.7	24	31
Pittsburgh.....	Ohio.....	13.1	21.9	13	8.4	1	22
Beaver Dam.....	Ohio.....	15.3	28.3	13	7.4	1	30

Climatological Data for February, 1925

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Observers			
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy		Cloudy	Prevailing direction of wind	
Atlantic Drainage.																					
Allentown	Lehigh	254	13	34.4		62	23	10	3†	33	2.08	-0.93	0.58		10	9	14	5	w.	John A. Frick.	
Altoona	Blair	1,615	38	36.2	+10.4	60	8	1	3	34	2.78	+0.67	1.71	3.0	8	8	12	8	w.	Lewis E. Biller.	
Bethlehem	Northampton	295	41	36.9	+7.1	66	23	8	3	31	2.36	-1.13	0.62		7	8	12	8	sw.	Rev. R. H. Brennecke, Jr.	
Biglerville	Adams	652	3	36.4		64	22	10	4†	33	1.68		0.60	0	6	13	2	13		R. C. Walton.	
Bustleton	Philadelphia	125	6																	Experiment Station	
Carlisle	Cumberland	467	58	35.8	+6.4	64	22	9	28	32	1.65	-1.63	0.43	T.	6	15	5	8	ne.	Prof. C. E. Miller.	
Catawissa	Columbia	520	28	36.1	+7.0	68	22	2	3	39	1.71	-0.97	0.46	T.	8	14	6	8		H. H. Yetter.	
Center Hall	Center	1,272	29	36.1	+10.2	61	8	5	28	31	0.75	-1.55	0.43	0.2	5	15	7	6		S. W. Smith.	
Chambersburg	Franklin	580	25	35.4	+4.6	65	22	9	5	33	1.83	-1.08	0.53	0	7	9	10	9	ne.	William B. Spear.	
Clearfield	Clearfield	1,120	15																	E. W. Hess.	
Coatesville	Chester	380	37	36.0	+6.1	65	22	10	3†	32	1.65	-2.45	0.47	T.	7	10	8	10	s.	Prof. W. T. Gordon.	
Colebrook	Lebanon	560	15	35.4		63	22	9	28	32	3.03	+0.15	0.78	T.	8	13	4	11	w.	Wm. A. Rorer.	
Emporium	Cameron	1,050	37	33.8	+9.1	64	23	-1	3	34	2.51	-0.36	1.10	1.0	10	7	13	8	w.	T. B. Lloyd.	
Ephrata	Lancaster	380	24	35.4	+7.3	62	22	7	5	32	1.86	-1.30	0.52	T.	6	11	9	8	s.	E. K. Hershey.	
Freeland	Luzerne	1,970	10	27.4		55	22	-4	3†	27	3.04		0.95	3.6	11	9	7	12	sw.	Theo. Reichmann.	
George School	Bucks	190	18	37.6	+7.9	66	22	10	3	34	2.05	-1.05	0.70	0	6	17	3	8	w.	Prof. N. W. Swayne	
Gettysburg	Adams	600	51	37.1	+6.8	69	22	10	3	37	1.53	-1.28	0.42	0	7	10	9	9	sw.	Col. E. B. Cope.	
Gordon	Schuylkill	840	21	34.4	+9.1	62	22	8	2	5	42	3.21	-0.26	1.76	3.0	7	13	3	12	e.	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875	1	29.4		59	8	-9	4	41	2.60	-1.13	1.05	13.5	9	17	1	10	s.	Gustav Holtz.	
Hamburg	Berks	535	32	33.6	+4.8	59	22	10	3†	30	4.61	+1.22	2.61		13	11	10	7	w.	State Sanatorium.	
Hanover	York	600	21	38.4	+6.7	66	22	12	3†	32	1.67	-0.70	0.40	0	8	16	4	8	se.	Mrs. Mabel C. Wolcott.	
Harrisburg	Dauphin	361	55	37.0	+6.8	62	22	13	28	25	1.60	-1.10	0.51	T.	7	6	8	14	nw.	U. S. Weather Bureau.	
Hawley	Wayne	900	6	31.7		59	9	-5	3†	43	1.45		0.58	2.6	6	17	3	8	w.	J. S. Pennell.	
Holtwood	Lancaster	200	10	38.0		64	22	14	5	34	1.83		0.55	0	7	10	5	13		H. W. Lowy, C. E.	
Huntingdon	Huntingdon	650	37	36.0	+7.6	62	22	3	3	36	2.23	-0.61	0.53	T.	9	13	5	10	w.	Prof. W. J. Swigart.	
Jersey Shore	Lycoming	570	5	35.2		63	23	-2	3	34	0.55		0.22		4	17	3	8		C. B. McCullough.	
Kennett Square	Chester	340	53																	W. P. Mercer.	
Lancaster	Lancaster	255	37	35.4	+5.6	66	23	5	5	38	1.49	-1.19	0.47	T.	6	12	9	7	n.	Supt. of Water Works.	
Lawrenceville	Tioga	1,000	27	34.4	+11.4	61	23	4	3	38			1.0		.....	11	5	12		C. P. Darling.
Lebanon	Lebanon	469	84	35.6	+6.9	64	22	11	28	38	2.71	-0.76	0.70	0	8	17	3	8	se.	S. B. Benzing.	
Lewisburg	Union	450	50	33.7	+7.9	56	8	-1	3	48	1.75	-1.04	0.69	T	7	12	4	12	s.	Prof. W. G. Owens.	
Lock Haven	Clinton	580	36	35.4	+8.3	62	9	8	28	35	0.87	-1.98	0.49	0.6	4	12	4	12	sw.	Charles Dunn.	
Lykens	Dauphin	680	10	36.6		64	22	5	4	38	2.18		0.89	T	8	14	4	10	nw.	Susquehanna Collieries Co.	
Mauch Chunk	Carbon	600	34	34.6	+7.6	63	22	6	3	40	2.88	-0.99	1.19	0.5	7	12	6	10	e.	R. K. Wintermute.	
Mifflintown	Juniata	445	21	36.4	+9.7	61	22	7	3	31	1.91	-0.43	0.40	T.	6	11	4	13	e.	Wellington Smith.	
Montrose	Susquehanna	1,720	22	29.7	+9.4	58	8	-7	3	33	1.92	-0.15	0.82	4.0	5	11	2	15	w.	Silas Jagger.	
Mt. Pocono	Monroe	1,658	22																	Cecil J. Hoskinson.	
Muncy Valley	Sullivan	1,045	13	34.2		65	22	0	28	39	2.23	-0.14	0.72		6	9	10	9		A. H. Boatman.	
Narberth	Montgomery	300	6	39.1		66	22	11	28	30	2.88		1.27	0.2	8	9	7	12	sw.	Charles Decker.	
Neshaminy Falls	Bucks	60	36	35.2		66	22	10	3†	36	1.28		0.50	T.	6	11	7	6	w.	North Springfield Water Co	
Palmerton	Carbon	398	8	33.6		61	22	3	3†	41	2.32		0.81	0.5	9	17	6	5	ne.	F. G. Breyer.	
Philadelphia (a)	Philadelphia	114	54	42.2	+8.3	65	10	15	28	24	1.66	-1.72	0.52	0.3	7	9	10	9	nw.	U. S. Weather Bureau.	
Philadelphia (d)	Philadelphia	12	9	40.4		66	22	15	28	30	2.61		0.58	T.	8					Commandant, Navy Yard.	
Phila. Point Breeze	Philadelphia	90		41.8		67	22	15	28	27	2.34		0.97	T.	7	12	4	12	sw.	Atlantic Refining Co	
Philadelphia-Gtn.	Philadelphia			42.2		70	22	16	28	30	2.50		1.03		7					Julius Bernstein.	
Phoenixville	Chester	100	14	35.5		63	22	9	5	34	2.08		0.81		5	17	9	2	s.	North Springfield Water Co.	
Quakertown	Bucks	496	40	33.4	+5.2	61	22	4	5	39	2.65	-1.11	0.65	.....	9	10	10	8	s.	John E. Benner.
Reading	Berks	325	55	37.2	+8.4	62	22	13	3	24	2.33	-1.17	0.68	T.	7	8	11	9	nw.	U. S. Weather Bureau.	
Seranton	Lackawanna	805	30	35.9	+8.7	64	9	6	3	28	1.79	-0.93	0.50	2.2	9	8	8	12	sw.	U. S. Weather Bureau.	
Selinsgrove	Snyder	455	35	34.2	+7.1	62	22	4	5	34	2.45	-0.49	1.30	.....	5	10	9	9	sw.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	29	37.9		61	22†	15	3	26	2.67	-0.51	1.37		7	10	7	11	nw.	W. S. Guiles.	
State College	Center	1,217	43	35.0	+9.5	58	9	3	3†	32	1.69	-1.10	0.61	T.	9	10	13	5	w.	C. A. Kern.	
Towanda	Bradford	754	30	32.2	+8.6	59	9	0	5	36	1.34	-0.57	0.47	2.2	9	9	3	16	e.	Hiram E. Bull, C. E.	
Wellsboro	Tioga	1,419	59	31.4	+6.8	58	23	1	5†	41	1.32	-1.03	0.55	3.5	7	10	8	10	sw.	George W. Hill.	
West Chester	Chester	455	87	37.7	+6.8	65	22	10	28	30	2.28	-1.62	0.81	0.5	8	9	10	9	sw.	Arthur M. Hay.	
Williamsport	Lycoming	521	38	35.0	+8.4	60	22	5	3	29	2.06	-0.50	0.69	T	9	14	2	12	sw.	George A. Beck.	
York	York	400	37	36.4	+6.8	68	22	7	4†	43	1.80	-1.23	0.57	0	7	9	11	8	w.	York Water Co.	
Ohio Drainage.																					
Beaver Dam†	Beaver	700	52	36.8		68	8	5	28	36	1.53	-0.78	0.34		8	10	3	15		U. S. Engineer.	
Bradford	McKean	1,427	10	33.6		66	8	-5	28	42	2.80		0.56	3.2	13	12	7	9	sw.	City Engineer.	
Bradys Bend†	Armstrong	930	7	29.0		58	22	-9	28	40	2.39		0.65	2.6	12	12	7	9		Edward R. Dewey.	
Brookville	Jefferson	1,173	34	31.0	+6.7	64	23	-6	3	41	2.10	-0.35	0.53	T.	8	15	9	4		John Fawcett.	
Claysville	Washington	1,150	21	38.3	+8.5	70	8	2	28	39	2.01	-0.48	0.47	3.1	11	11	6	11	nw.	J. L. Melvin.	
Corry	Erie	1,430	13	30.6		56	8†	-3	3	34	3.48		0.80	10.2	13	9	8	11		Nevin R. Dickson.	
Derry	Westmoreland	1,172	28	39.1	+11.0	69	9	3	28	38	3.18	+0.19	0.78		11	8	16	4	sw.	Wm. A. Huff, Jr.	
Ebensburg	Cambria	2,000	7	36.3		65	8	0	28	34	1.60		0.85		6	12	8	8	sw.	D. H. Jones.	
Elk Lick	Somerset	2,680	8								</										

Daily Precipitation for February, 1925

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown	Lehigh			*							.27	.28	.40	.02		.58						.05	.01	.02	.14		.33	.04					2.08
Altoona	Juniata	.22									.14	.25			.17							.05	.01	.28			.34					2.78	
Ansonia	W. Br. Susq.	.11	.20								.02	.09	.60	T.	.01	.16		T.					T.	.21	.03		.31	T.				1.74	
Baker's Summit	Juniata	.12									.05	1.29	.05		.41								.03	.15			.33					2.43	
Bethlehem	Lehigh	.33									.38	.44	.06		.62								.19			.44						2.36	
Biglerville	Susquehanna	.07									.17		.36			.60								.14			.34					1.68	
Bloersville	Lower Susq.	.10									.10	.30				.60								.10		.45						1.65	
Bustleton	Lower Del.																															1.34	
Carlisle	Lower Susq.	.12										.18	.08			.48								.12			.41					1.71	
Catawissa	N. Br. Susq.	.26				.02				T.	.10	.46			.42							T.		.16		.02	.27					0.75	
Center Hall	Susquehanna	.08										.43		.02									.14									1.83	
Chambersburg	Potomac	.12									.07	.21	.29			.52								.09			.53						
Clearfield	W. Br. Susq.																															1.65	
Coatesville	Lower Del.	.01									.39	.47	.09			.28								.06			.35					3.03	
Colebrook	Lower Susq.	.18				T.				T.	.78	.70	.12		T.	.65	T.							.26	.02		.32					2.50	
Conshohocken	Schuylkill										.56	1.00	.03			.20		T.						T.			.71					2.29	
Cresson	Juniata	.25								.01	.02	1.27	.04	.03			.20	.01						.06		.20	.20					2.09	
Doylestown	Lower Del.	T.									.54	.68				.39		T.						T.			.48						
Driftwood	W. Br. Susq.	.70									.05	.56	.45	T.		.13		T.						.37	.03		.16	T.				2.45	
Emporium	do	.22				T.				T.	.15	1.10	T.	.10		.21		T.					.11	.20	.31		.05	.06	T.			2.51	
Ephrata	Lower Susq.	.16									.41	.30				.52		T.						.22			.25					1.86	
Forest City	N. Br. Susq.																															3.04	
Freeland	Lehigh		.26				.03				.10	.95	.60	.04	T.		.48		T.					.06	.04		.46	.02				2.05	
George School	Lower Del.	T.	.15							T.	.47	.70	.17			.18		T.						T.	T.		.38						
Gettysburg	Potomac	.06									.42	.12	.14			.34								.21	T.		.24					1.53	
Girardville	Susquehanna	.20				T.			.03		.27	1.57	.12			.48		T.						.15			.24	.25				3.31	
Gordon	Lower Susq.	.12									.16	1.76	.22			.46								.16			.33					3.21	
Gouldsboro	Lehigh	.15	.10								.20	.61	.20					.09						.14	.06		1.05					2.60	
Graterford	Schuylkill	.09			.02							.97	.11			.18								.03			.04					1.44	
Hamburg	Schuylkill	.13				.11	.09	.07	.12	*	2.61			.04		.73			.02	.02				.25			.42					4.61	
Hanover	Lower Susq.	.08									.40	.07	.22			.40								.28	.01		.21					1.67	
Harrisburg**	do	.17				T.			.04		.06	.33	T.			.51								.23			.26					1.60	
Harrisburg East	do	.15									.13	.10	.36			.54								.26			.25					1.79	
Harrisburg North	do	.01	.12								.05	.16	.25			.25	.19	T.						.13	.10		.34					1.60	
Hawley	Upper Del.	.10										.23	.53	.01			T.	T.						.57	.01		T.					1.45	
Holtwood	Lower Susq.		.05								.48	.55	.22				.29								.04		.20					1.83	
Huntingdon	Juniata	.30									.05	.53	.32			.44							.01	.02	.21		.35					2.23	
Jersey Shore	W. Br. Susq.	.12									.03	.18				.22								T.								0.55	
Kennett Square	Delaware																																
Lancaster	Lower Susq.	.13									.28	.26				.47								.13			.22					1.49	
Lansford	Lehigh		.15				T.				.21	1.10	.60				.50							.07	.08		.32	.02				3.05	
Lawrenceville	N. Br. Susq.																																
Lebanon	Lower Susq.	T.	*							.34	.52	.70				.66								.05	.18		.26	T.				2.71	
Leola	W. Br. Susq.		1.00									.60	.60			.33								.27	*	.05	.25					3.10	
Lewisburg	do										.10	.69	.23			.42	.02							T.		.27	.02					1.75	
Lloyd	do	.23									.14	.35	.26	.08		.23	.03							.04	.23		.43					2.02	
Lock Haven	do	.09									.49	T.		T.		.26								.03			T.					0.87	
Lykens	Susquehanna	.17									.07	.89	.16			.42	.01							.16			.30		T.			2.18	
Mauch Chunk	Lehigh	.13									.47	1.19	.05			.50								.14			.40					2.88	
Mifflintown	Juniata	.24									.34	.25				.40								.33			.35					1.91	
Montrose	N. Br. Susq.	.20									.32					.40		T.						.30			.20					1.92	
Mount Pocono	Upper Del.																																
Mount Union	Juniata	*	.28			*	.20		*	.60						*	.40							T.	*	.20							1.68
Muncy Valley	W. Br. Susq.	.14				T.					.10	.72				.28	T.	T.						.56			.43					2.23	
Narberth	Lower Del.	.11	T.			T.					.52	1.27	.20	T.		.20		T.						.07	.03		.48					2.88	
Neshaminy	Lower Del.										.50		.30	.03			.03								.02		.40					1.28	
New Park	Lower Susq.	.20									.25	.42	.16		.32									.08			.26					1.69	
Newport	Juniata																																
Palmerton	Lehigh	.14				T.				.12	.37	.31	.04			.53																	

Daily Precipitation for February, 1925—Continued from page 8

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio.	.22							.02		.34	.21										.05	.03	.34			.32						1.53	
Beaver Falls|||	Beaver.	.18	.09						.01		.55	T.	T.	T.	.05								.06	.41	.02		.34	T.					1.71	
Bradford.....	Allegheny	.40			T.				.03	.24	.52	.34	.05		T.	T.	.02					.18	.10	.56	.01		.31	.04					2.80	
Bradys Bend.....	do.	.38							.07	.10	.27	.23	.02		.09							.11	.09	.35			.65	.03					2.39	
Brookville.....	do.	.53							.10		.49	T.	T.		.05							.28	.35	.15		.15	T.						2.10	
Clarion.....	do.	.84							.07	.12	.50	.10	.01		.06							.12	.10	.32	.02		.48						2.74	
Claysville.....	Ohio.	.40							.04	.02	.26	.19			.30		T.					.05	.02	.18	.08		.47						2.01	
Cloe.....	Allegheny	T.	.39						.13		.43	T.	T.		.32		T.					.14	.08	.21		.27	.16						2.13	
Clymer.....	Conemaugh.....	.60								.13	.30	.26	T.		.21		T.					.04	.12	.27		.44							2.37	
Colegrove|||	Allegheny																																	
Confluence|||	Youghiogheny		.25								.66				.30	.20						.03	.10				.25	.08					1.87	
Coraopolis|||	Ohio.	.21	.11							.06	T.	.69		T.	.06	.12							.08	.28	T.	T.	.32	T.					1.93	
Corry.....	Allegheny.	.23							.19	T.	.71	.30	.08					.03				.36	.20	.80	.02	T.	.46	.08	.02				3.48	
Coudersport.....	do.	*			.33	.03			.04		*	1.34	.02		.14		.04					.12		.35	.04	.30		.02					2.77	
Creekside.....	Allegheny	.53							.13		*	.43			.29		.03					.18		.34			.56						2.49	
Derry.....	Conemaugh.	.78							.13		.17	.43	.12	T.	.33		.04					.09	.10	.25	.16		.71						3.18	
Ebensburg.....	Conemaugh.	.10									.85				.38							.04	.08		.15								1.60	
Elk Lick.....	Youghiogheny																																	
Falls Creek.....	Allegheny	.34							.04		.43	.19			.10							.20		.42			.53						2.25	
Franklin|||	Allegheny.	.21	.15						.14		.69	T.	T.	T.	T.							.10	.40	.09		.39	T.	.07					2.24	
Freeport|||	Allegheny	.41	.09						.19		.21	T.		.11	.17								.11	.20	.04		.71	.03					2.27	
Greensburg.....	Youghiogheny	.51							T.	.20	.38	.09	T.	*	.29		.03					.10	.01	.21	.20		.50	.03					2.55	
Greenville.....	Beaver	.34							.05		.55											.23	*	.91		*	.38	.10					2.56	
Grove City.....	Beaver.	.27							.05		.20	.38										.08	.11	.59	.02		.21	.01	.05				1.97	
Herrs Isl. Dam|||	Ohio.	.18	.01						.14	T.	.20	T.	T.	.10	.13	T.	T.					.05	.23	.07		.45	.01						1.57	
Indiana.....	Conemaugh.	.50							.16	.24	.10	.01		.23								T.	.11	.20		.54	T.						2.09	
Ingram.....	Ohio.	.27							.05		.42	.20	T.		.26		T.					.05	.20	.06	T.	.50	.01						2.02	
Irwin.....	Youghiogheny	.42							T.	.10	.10	.10	T.	T.	.20	.01	T.					.04	.03	.17	.13		.28	T.					1.58	
Johnstown.....	Conemaugh.	T.	.43						T.	.01	.86	.12	*	.02	.21		.02					.10		.35		.50	.01						2.63	
Ketner.....	Allegheny.	.62							.07	.40	.31	.05		.03								.20	.08	.46	.04		.56	.05					2.87	
Kregar|||	Youghiogheny.	.19	.35						T.		.51	.04		.12	.28							.10	.16	.25		.52	.03						2.55	
Linesville|||	Beaver	.19							.12	.06	.41	.02			.03					*	.17	.34	.75	.04	*	.42							2.55	
Lock No. 4|||	Monongahela.	.15	.43						.07		.38	T.		.06	.16		.06					.06	.20	.08		.58	.01						2.24	
Lycippus.....	Conemaugh.	1.14								.42	.14	T.		.29		T.					.09	T.	.19	.18	.20	.55	T.						3.20	
Martin.....	Monongahela.	.15							T.	T.	.43			.16	.23	T.	T.					.04	.08	.06	T.	.40	T.						1.55	
New Castle|||	Beaver		.50						.05	*	.32			.01								.12	.56		.03		.05						1.64	
Newell.....	Monongahela.	.05	.15							.13	.20						.02					.04	.16	.16		.50							1.41	
Parkers Landing|||	Allegheny.	.25	.05						.23	T.	.80	.05	T.	T.	.07	T.	T.					.20	.32	.02	T.	.38	.05	T.					2.42	
Pennline|||	Beaver	T.	.13						.19	.12			T.	.35		.06	.03				.15	.39	.72	.02		.33	.01	T.					2.50	
Pittsburgh***	Ohio.	.01	.24						.05	.49	.09	T.		.25		T.					.05	.12	.13	.01	.28	.19	T.						1.91	
Ridgway†	Allegheny	.60							.04	.49	.08												.63			.45	.26							2.61
Saltsburg|||	Conemaugh.	.20	.31						.08	T.	.42	T.		.03	.26			.01					.14	.18	.02		.56						2.21	
Saegertown.....	Allegheny.	.20						.15		.40	.05					.05					.34	.08	.79		.05	.05	.05						2.26	
Sharon|||	Beaver	.16	.07							*	.42	T.	T.			T.						.08	.69	.02		.29							1.73	
Somerset.....	Youghiogheny	.20								.71	.15	.10	.65		.61		.10	.15	.20			.15	.27			.10	.61						4.00	
Springdale|||	Allegheny.	.25	.15						.07	T.	.44			.10	.16	.01						.11	.22	.02		.60	T.						2.13	
Uniontown.....	Monongahela.	.60							T.	.02	.25	.14		.01	.45							.02	.02	.06	.15		T.						1.73	
Unity Reservoir†	Youghiogheny	.70							T.	.15	.38	.30	T.		.31		.04					.05	.07	.20	.15		.67	.05					3.07	
Vandergrift.....	Conemaugh.	.20								.28					.24							.15		.25			.60						1.72	
Warren.....	Allegheny.	.24	.04						.22		.60	.05	.04		.02		.02				.30	.40	.16		.05	.25	.02	.02					2.43	
Washington.....	Ohio.	.01	.31	T.					.05		.59	T.		T.	.29		T.					.09	.19	.06	.05	.31	.20	T.						2.15
Waynesburg|||	Monongahela.		.45							.20	.20	.30	*		.25							.11					.02						1.53	
Westford|||	Beaver.	T.								.05	.25						T.					.55	.45	.05	T.	T.	.05	.05					1.45	
West Newton|||	Youghiogheny	.13	.33							.10		.33			.07	.17						.07	.17	.03		.55							1.95	
Lake Drainage.																																		
Erie***	Lake Erie.	.22		T.	T.				.01	T.	.22	.25	T.					T.				.31	.16	.72	.03	.16	.11	.01					2.20	
West Bingham.....	Genesee.	*							T.	.02	.70	.30	T.	.10		.10						.11		.35			.05						1.73	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Post Office address:—Greensburg † Daily amounts inconsistent.

Daily Temperatures for February, 1925

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Allentown.....	Maximum..	44	35	30	31	42	47	49	49	47	48	52	47	35	43	38	46	42	35	44	50	52	60	62	56	46	43	26	30	.....	43.9
	Minimum..	25	30	10	10	13	14	24	25	28	29	37	36	23	22	23	28	28	22	22	26	29	30	39	38	36	26	14	12	.....	25.0
Altoona.....	Maximum..	47	39	35	33	48	50	59	60	59	54	50	45	34	42	41	48	41	37	48	49	54	58	59	57	49	46	16	29	.....	46.0
	Minimum..	38	33	1	12	24	34	32	36	34	40	41	18	19	14	35	24	28	15	22	23	29	42	42	41	39	16	6	3	.....	26.5
Beaver Dam.....	Maximum..	46	40	28	38	48	53	63	68	65	56	55	36	37	44	42	50	48	39	46	47	57	63	66	61	50	50	20	30	.....	48.1
	Minimum..	34	22	7	22	19	26	30	32	35	32	31	18	20	13	30	21	27	16	27	21	31	41	44	38	40	19	10	5	.....	25.4
Bradford.....	Maximum..	43	40	32	43	42	51	63	66	62	54	54	45	31	42	39	47	43	32	45	48	49	55	64	58	53	52	8	26	.....	46.3
	Minimum..	25	16	-4	19	10	31	31	30	30	34	33	19	12	7	31	13	20	4	18	14	26	38	46	43	34	10	0	-5	.....	20.9
Bradys Bend.....	Maximum..	40	38	26	32	41	41	41	44	44	48	48	36	30	40	40	39	38	31	42	43	48	58	55	55	51	18	28	.....	40.9	
	Minimum..	38	18	-3	13	9	19	23	26	23	25	27	12	8	2	25	13	22	5	15	11	22	33	38	30	34	11	1	-9	.....	17.2
Brookville.....	Maximum..	42	36	29	...	43	48	46	52	60	51	55	25	34	43	38	46	34	35	49	46	53	57	64	54	57	42	16	28	.....	43.8
	Minimum..	33	6	-6	...	10	29	29	29	23	31	24	11	7	2	20	11	13	6	16	15	27	37	37	39	40	9	0	-5	.....	18.3
Carlisle.....	Maximum..	50	42	35	32	43	50	50	55	48	42	50	44	38	46	40	47	43	40	44	52	53	64	57	57	52	46	25	32	.....	45.6
	Minimum..	18	33	11	10	11	29	22	25	30	35	38	28	24	20	32	25	32	20	22	27	30	35	50	38	34	25	14	9	.....	26.0
Catawissa.....	Maximum..	53	39	33	34	37	53	54	55	63	54	55	47	38	49	45	50	44	40	44	55	53	68	59	55	49	38	27	33	.....	47.3
	Minimum..	29	33	2	6	3	28	20	24	24	35	47	29	20	18	36	30	30	17	20	26	25	38	47	37	36	20	11	7	.....	24.9
Chambersburg.....	Maximum..	44	37	37	33	42	50	51	55	48	41	48	44	39	42	38	48	44	38	45	52	52	65	59	58	52	47	25	31	.....	45.2
	Minimum..	20	34	11	10	9	22	22	25	29	35	36	26	24	22	32	26	32	22	26	28	34	42	36	34	25	15	10	.....	25.5	
Claysville.....	Maximum..	47	41	31	36	48	60	65	70	68	65	64	35	36	39	42	50	49	41	53	57	58	64	67	62	57	47	21	35	.....	50.3
	Minimum..	36	22	9	18	19	22	34	38	45	35	35	16	21	9	35	20	28	14	26	18	35	45	52	37	39	18	2	.....	26.3	
Clearfield.....	Maximum..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.....	...
	Minimum..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.....	...
Coatesville.....	Maximum..	45	40	36	31	44	45	49	56	45	52	53	50	34	42	44	47	46	37	43	50	54	65	60	53	48	43	26	30	.....	45.3
	Minimum..	31	33	10	15	16	33	25	28	30	36	44	26	22	19	31	30	32	20	17	25	24	33	45	43	32	23	15	10	.....	26.7
Corry.....	Maximum..	41	35	25	27	34	46	48	56	56	52	41	32	25	33	35	39	38	24	33	42	48	54	54	49	51	44	12	22	.....	39.1
	Minimum..	22	11	-3	20	14	27	36	36	45	33	30	16	15	7	27	17	18	6	21	16	36	40	47	34	36	10	2	0	.....	22.1
Emporium.....	Maximum..	44	38	30	38	43	48	50	54	60	46	52	38	36	42	42	46	34	34	50	46	53	56	64	55	51	45	15	27	.....	44.2
	Minimum..	36	17	-1	21	16	32	29	29	35	38	24	20	8	34	22	22	8	18	18	25	40	44	38	36	15	6	0	.....	23.5	
Erie.....	Maximum..	38	21	25	34	40	52	60	65	62	41	34	26	31	39	39	43	31	34	42	41	51	54	62	41	46	36	10	27	.....	40.2
	Minimum..	19	14	8	25	28	27	46	50	39	33	26	20	24	18	31	28	20	14	26	22	38	33	36	33	36	8	6	5	.....	25.5
Franklin§§.....	Maximum..	40	41	31	42	43	51	60	64	59	59	45	26	36	41	44	46	32	39	47	48	53	56	63	52	55	25	16	36	.....	44.6
	Minimum..	6	30	-1	-1	15	21	27	32	29	30	33	17	17	10	10	18	18	11	13	21	22	39	39	38	37	21	5	0	.....	19.9
Gettysburg.....	Maximum..	43	40	36	34	48	52	63	62	52	50	45	38	45	41	50	49	42	47	54	54	69	59	57	53	46	30	35	.....	47.6	
	Minimum..	30	30	10	11	11	25	24	27	30	39	38	27	24	22	30	26	34	21	22	26	27	35	46	42	34	27	15	11	.....	26.6
Greensburg.....	Maximum..	45	41	30	37	47	55	62	68	69	62	58	35	34	45	43	49	45	38	53	49	58	67	67	60	59	55	18	30	.....	49.2
	Minimum..	38	26	8	21	17	22	40	36	47	41	35	20	22	26	35	25	28	19	28	23	36	46	52	41	41	18	9	4	.....	28.7
Grove City.....	Maximum..	42	38	30	40	48	50	66	65	57	52	51	43	40	42	45	47	44	37	48	47	53	58	64	57	53	50	26	35	.....	47.2
	Minimum..	26	19	-1	21	16	20	26	36	44	42	33	23	21	27	20	20	14	14	27	19	36	43	50	38	38	16	6	1	.....	24.8
Hamburg.....	Maximum..	46	44	38	30	40	47	49	45	44	45	49	47	33	46	38	43	42	40	42	50	50	59	50	51	50	40	26	21	.....	43.0
	Minimum..	21	30	10	16	10	31	21	25	28	36	49	29	21	16	26	28	31	16	17	25	22	30	34	36	30	26	13	10	.....	24.2
Harrisburg.....	Maximum..	46	38	28	33	45	49	50	57	45	46	53	39	38	43	39	46	45	36	44	53	55	62	58	54	46	43	23	31	.....	44.5
	Minimum..	33	22	14	16	17	38	32	32	36	41	39	27	26	27	34	30	33	24	25	32	34	40	46	40	40	22	15	13	.....	29.6
Hawley.....	Maximum..	42	35	30	31	43	48	54	58	59	50	50	48	32	42	36	43	44	31	39	44	50	56	51	52	51	43	24	24	.....	43.0
	Minimum..	33	25	-5	5	0	32	16	23	21	36	35	26	16	13	30	17	27	12	10	21	20	33	38	30	29	23	9	6	.....	20.4
Huntingdon.....	Maximum..	49	42	38	35	42	53	57	61	61	55	52	48	40	45	42	50	45	40	51	53	56	62	59	60	50	49	21	32	.....	48.1
	Minimum..	26	33	3	11	6	30	22	26	26	36	37	24	24	16	34	23	23	14	19	24	22	40	44	36	37	21	11	6	.....	24.0
Indiana.....	Maximum..	43	41	32	39	46	55	63	67	64	66	61	45	35	44	42	50	45	38	54	50	59	64	65	60	57	57	19	30	.....	49.7
	Minimum..	37	25	5	20	17	33	34	37	42	37	42	17	16	10	36	23	20	16	24	19	35	45	50	43	40	17	7	1	.....	27.1
Johnstown.....	Maximum..	47	42	38	42	51	51	65	67	64	61	55	35	37	42	44	47	38	38	54	53	64	62	58	60	50	20	32	.....	48.8	
	Minimum..	32	26	13	22	19	32	31	33	38	44	35	19	24	21	29	28	30	23	23	28	29	45	46	48	44	18	9	8	.....	28.1
Lancaster.....	Maximum..	42	41	40	35	48	51	49	51	43	44	50	47	48	44	42	45	46	42	43	52	55	65	66	58	54	50	33	33	.....	46.9
	Minimum..	24	32	9	9	5	30	19	20	24	33	34	27	21	28	26	29	16	14	23	25	29	41	37	40	27	15	9	.....	23.9	
Lawrenceville.....	Maximum..	42	35	27	35	52	55	59	60	60	56	57	48	37	45	42	45	45	35	45	50	55	54	61	57	45	45	20	30	.....	46.3
	Minimum..	20	17	4	9	32	25	29	27	35	33	24	10	15	32	20	27	8</														

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXX.

MARCH, 1925.

No. 3

GENERAL SUMMARY.

Although marked by a moderate cold spell during the first week, when temperatures below zero were recorded at several northern and western stations on the 3d, the temperature for March showed an excess over normal averaging 3.5° and, while not so abnormally warm as February of this year, the weather was very favorable for an early start in all farm and other outdoor operations. At the end of the month winter grains, clover and alfalfa were in good condition, having wintered well, and in some of the southern counties plowing was well under way. The abnormally warm weather of February and March have caused some of the fruit trees to bud, and if hard frosts occur there is danger of considerable damage to all kinds of stone fruits. Moderately heavy rain and snow fell in all sections of the State on the 1st, and light to moderate rains occurred on the 11th, 12th, 17th, 18th, 19th, and precipitation was quite general during the last four days of the month. The snow of the 1st did not remain long on the ground, and by the 8th it had disappeared in practically all parts of the State. Snow sufficient to cover the ground occurred also on the 29th in northern counties, but this also melted rapidly under the warm sun. No destructive wind storms were reported, and none of the rivers in the State attained flood stage during the month.

F. H. A.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 81 stations, was 40.9°, or 3.5° above the March normal. The highest mean was 47.2° at Germantown, Philadelphia. The lowest mean was 31.9° at Freeland. The highest temperature recorded during the month was 79° at Catawissa on the 26th, and the lowest was -15° at West Bingham on the 3d. The greatest daily temperature range was 53° at Muncy Valley on the 26th and also at Bradys Bend on the 24th and 26th.

PRECIPITATION.

The average precipitation for the State, as shown by the records from 133 stations, was 2.56 inches, or 0.85 inch below the March normal. The greatest monthly amount at any station was 4.13 inches at Bustleton, and the least was 1.47 inches at Herra Island Dam. The greatest amount recorded in any 24 consecutive hours was 1.66 inches at Pleasant Mount on the 27th and 28th. The average snowfall for the State was 2.2 inches. The greatest monthly snowfall reported was 11.0 inches at Wellsboro. The greatest 24-hour snowfall was 6.8 inches at Pleasant Mount on the 27th and 28th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Total move- ment, in miles	Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Velocity, in miles per hour			
				8 a m	8 p m		Average	*Highest	Direction	Date
Erie.....	142.2	370.6	38	73	76	10,610	14.3	60	sw.	19
Harrisburg.....	198.3	371.0	53	72	61	5,906	7.9	34	w.	19
Philadelphia.....	233.0	371.0	63	72	60	7,474	10.3	29	n.	27
Pittsburgh.....	180.3	370.8	49	76	62	8,566	11.5	46	sw.	19
Reading.....	225.0	371.0	60	82	75	5,545	7.5	30	w.	10
Scranton.....				82	71	6,100	8.2	48	sw.	19

* For any five-minute period.

UNIVERSITY OF ILLINOIS

COMPARATIVE DATA FOR MARCH

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	31.2	72	-6	3.55	6.39	1.70	.....	.....	.....
1889.....	39.0	76	4	2.90	5.44	1.44	10	8	13
1890.....	33.2	76	-18	5.15	8.31	2.90	6	10	15
1891.....	33.8	60	-14	5.10	8.39	2.44	7	8	16
1892.....	31.8	66	-4	4.14	6.61	2.04	11	7	13
1893.....	34.8	74	3	2.52	5.09	0.71	9	9	13
1894.....	43.2	84	-2	1.63	2.90	0.24	12	11	8
1895.....	33.8	70	-4	2.31	4.03	0.99	10	10	11
1896.....	30.6	69	-18	4.51	7.98	1.77	11	8	12
1897.....	39.0	75	-5	3.22	5.86	1.01	11	7	13
1898.....	44.0	83	4	4.31	8.40	2.06	10	8	13
1899.....	36.3	75	3	4.87	10.30	1.91	5	9	17
1900.....	31.2	66	-23	3.61	7.31	2.25	10	9	12
1901.....	37.4	80	-11	4.14	7.21	1.52	7	10	14
1902.....	41.3	78	2	3.98	7.50	0.77	10	9	12
1903.....	46.4	83	14	4.52	5.81	2.82	10	7	14
1904.....	36.0	80	-2	4.29	7.02	2.10	9	8	14
1905.....	39.0	86	-18	3.86	6.57	1.40	12	8	11
1906.....	31.7	68	-13	4.46	7.37	2.76	8	7	16
1907.....	41.8	92	-10	4.26	8.20	1.08	11	8	12
1908.....	40.7	83	-4	4.76	10.00	1.58	11	8	12
1909.....	35.6	74	-5	3.07	4.90	1.33	10	9	12
1910.....	44.9	88	5	0.56	1.33	0.00	15	10	6
1911.....	35.0	73	-18	2.57	4.75	1.15	11	8	12
1912.....	33.6	72	-8	5.05	9.71	1.80	10	8	13
1913.....	42.1	81	-7	5.27	9.08	2.75	9	8	14
1914.....	34.2	79	-12	2.61	5.08	0.88	10	3	13
1915.....	32.9	62	-4	1.28	2.80	0.57	15	8	8
1916.....	30.7	84	-31	4.12	8.84	2.20	12	8	11
1917.....	37.3	84	-12	3.68	6.06	1.43	11	8	12
1918.....	41.6	82	0	2.34	4.98	0.87	17	7	7
1919.....	41.1	79	6	3.57	6.99	1.29	15	7	9
1920.....	38.7	80	-11	2.83	9.70	1.06	16	7	8
1921.....	43.0	88	7	3.33	6.15	1.05	12	9	10
1922.....	40.0	81	-5	4.87	6.65	2.30	11	6	14
1923.....	37.0	80	-8	2.49	5.21	0.70	13	8	10
1924.....	36.1	78	3	2.83	8.97	0.59	12	9	10
1925.....	40.9	79	-15	2.56	4.13	1.47	14	6	11

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	4.7	5.8	29	3.6	27	18
Phillipsburg.....	Delaware.....	5.0	6.0	20	4.0	27	22
Mauch Chunk.....	Lehigh.....	4.1	4.8	28	3.6	11	12
Wilkes-Barre.....	Susquehanna.....	8.4	10.8	21	6.5	6	20
Williamsport.....	Susquehanna.....	4.1	5.6	1	3.3	6	20
Harrisburg.....	Susquehanna.....	5.7	6.9	1	5.1	7	17
Freeport.....	Allegheny.....	7.9	10.4	20	6.0	9	22
West Newton.....	Youghiogheny.....	2.3	4.7	20	1.8	9	20
Lock No. 4.....	Monongahela.....	16.0	23.8	20	14.4	11	31
Pittsburgh.....	Ohio.....	11.0	15.3	20	9.8	7	22
Beaver Dam.....	Ohio.....	11.5	18.3	21	8.6	8	30

Climatological Data for March, 1925

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation of in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	13	41.0		74	26	8	3	41	2.75	-1.23	0.72	T.	12	15	12	4	n.	Johu A. Frick.
Altoona	Blair	1,615	38	39.8	+2.5	76	26	0	3	40	2.22	-0.48	0.50	6.0	11	15	9	7	w.	Lewis E. Biller.
Bethlehem	Northampton	295	41	44.7	+5.1	75	26	8	3	41	2.88	-0.76	0.70	T.	9	4	22	5	nw.	Rev. R. H. Brennecke, Jr.
Biglerville	Adams	652	3	42.4 ^b		74 ^a	26	6 ^b	3	40 ^a	2.11		0.58	T.	7	13	8	10	w.	R. C. Walton.
Bustleton	Philadelphia	125	6	44.0		76	27	10	3	36	4.13		1.48	T.	7	16	4	11	w.	Experiment Station.
Carlisle	Cumberland	467	58	43.2	+5.7	77	26	7	3	44	2.12	-1.42	0.70	T.	8	17	4	10	ne.	Prof. C. E. Miller.
Catawissa	Columbia	520	28	40.8	+3.2	79	26	3	3	51	2.34	-0.71	0.77	T.	11	16	2	13		H. H. Yetter.
Center Hall	Center	1,272	29	39.4	+3.6	74	26	0	3	37	2.15	-1.10	1.18	5.0	8	18	4	9		S. W. Smith.
Chambersburg	Franklin	580	25	42.2	+3.8	74	26	7	3	42	2.78	-0.22	0.61	0.8	8	15	4	12	n.	William B. Spear.
Clearfield	Clearfield	1,120	15																	E. W. Hess.
Coatesville	Chester	380	37	42.0	+2.6	71	26	6	3	39	2.98	-1.38	0.94	0.5	8	14	8	9	nw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	15	40.8		74	26	7	3	41	3.15	-0.65	1.16	0.6	13	16	1	14	n.	Wm. A. Rorer.
Emporium	Cameron	1,050	37	38.0	+3.0	73	26	-10	3	48	2.93	-0.79	0.61	6.0	10	12	6	13	w.	T. B. Lloyd.
Ephrata	Lancaster	380	24	43.8	+4.8	76	26	7	3	44	2.70	-0.82	0.67	1.0	8	15	5	11	n.	E. K. Hershey.
Freeland	Luzerne	1,970	10	31.9		70	26	-10	3	38	3.42		0.95	10.4	14	12	5	14	nw.	Theo. Reichmann.
George School	Bucks	190	18	43.7	+4.5	76	27	8	3	42	3.80	+0.34	1.47	T.	9	18	3	10	nw.	Prof. N. W. Swayue
Gettysburg	Adams	600	51	43.4	+4.2	75	26	6	3	43	2.07	-1.09	0.46	1.0	9	13	8	10	sw.	Col. E. B. Cope.
Gordon	Schuylkill	840	21	39.2	+3.3	73	26	3	3	47	2.66	-1.66	0.76		11	16	2	13	n	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875	1	35.4		66	26	2	4	44	3.02	-0.24	0.70	5.5	12	16	3	12	w.	Gustav Holtz.
Hamburg	Berks	535	32	39.4	+1.0	72	26	6	3	43	2.85	-1.29	0.81	T.	7	12	12	7	nw.	State Sanatorium.
Hanover	York	600	21	43.8	+2.2	74	26	7	3	36	2.06	-1.09	0.53		11	17	5	9	n.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	55	42.7	+3.8	72	26	9	3	32	2.43	-0.69	0.96	0.7	10	9	8	14	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	6	39.2		73	26	3	3	49	2.34		1.06	3.0	11	16	8	7	w.	J. S. Pennell.
Holtwood	Lancaster	200	10	42.2		70	26	10	3	31	2.52		1.01	3.0	10					H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	37	41.2	+2.9	78	26	3	3	52	2.13	-1.43	0.55	2.1	10	16	1	14	w.	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	5																	C. B. McCullough.
Kennett Square	Chester	340	53																	W. P. Mercer.
Lancaster	Lancaster	255	37	44.4	+6.4	74	26	8	3	44	2.85	-0.60	1.08	0	8	20	7	4	n.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	27	39.2	+5.2	76	26	4	3	48	1.92	-0.59	0.60	6.0	9	15	2	14		C. P. Darling.
Lebanon	Lebanon	469	84	40.4	+1.8	76	26	7	3	44	2.70	-1.14	1.03	0.5	10	16	4	11	se.	S. B. Benzing.
Lewisburg	Union	450	50	41.2	+5.9	76	26	4	3	48	2.41	-1.11	0.76	3.5	11	14	5	12	s.	Prof. W. G. Owens.
Lock Haven	Clinton	580	36	40.8	+3.0	78	26	-4	3	48	2.09	-1.45	0.83	2.0	6	19	4	8	sw.	Charles Dunn.
Lykens	Dauphin	680	10	41.3		75	26	4	3	46	2.19		0.59	0.5	8	16	5	10	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	34	40.4 ^a	+3.6	74 ^a	26	5 ^a	3	48 ^a	3.41	-1.09	1.08	0.2	9	14	3	14	w.	R. K. Wiutermute.
Mifflintown	Juniata	445	21	42.0	+4.0	75	26	5	4	45	1.68	-1.48	0.49	1.5	10	14	6	11	uw.	Wellington Smith.
Montrose	Susquehanna	1,720	22	35.0	+3.9	70	26	-8	3	41	2.52	-0.19	0.60	7.0	8	18	1	12	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	22																	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	13	39.0		73	26	-6	3	53	2.57	+0.18	0.48	1.2	8	9	13	9	w.	A. H. Boatman.
Narberth	Montgomery	300	6	44.0		73	27	7	3	36	3.73		1.27	0.1	9	17	4	10	uw.	Charles Decker.
Neshaminy Falls	Bucks	60	36	41.6		77	27	7	3	42	2.39		0.80	T.	9	18	2	11	w.	North Springfield Water Co.
Palmerton	Carbon	398	8	40.2		75	26	5	3	47	2.77		0.80	T.	8	16	8	7	ne.	F. G. Breyer.
Philadelphia (a)	Philadelphia	114	54	46.4	+5.6	74	27	11	3	30	3.15	-0.30	1.46	T.	9	13	6	12	nw.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	9	45.3		75	27	11	3	31	3.34		1.50	T.	8					Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90		46.4		75	27	10	3	30	3.29		1.48	T.	9	13	6	12	nw.	Atlantic Refining Co.
Philadelphia-Gtn.	Philadelphia	113		47.2		76	27	13	3	32	3.47		1.38	T.	8	16	4	11		Julius Bernstein.
Phoenixville	Chester	100	14	43.6		71	26 [†]	7	3	42	3.05		0.85	T.	6	17	12	2	nw.	North Springfield Water Co.
Quakertown	Bucks	496	40	40.9	+4.6	72	26	7	3	44	3.27	-0.44	1.09	1.4	9	13	5	13	sw.	John E. Benner.
Reading	Berks	325	55	43.4	+2.4	73	26	9	3	34	2.52	-1.02	0.65	T.	9	16	5	10	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	30	40.0	+4.3	73	26	5	3	40	2.12	-1.00	0.83	3.1	15	11	6	14	nw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	35	41.3	+3.1	74	26	4	3	37	3.05	-0.72	1.00	0	7	14	7	10	w.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	29	44.6		68	26 [†]	11	3	32	2.92	-0.75	1.02	T.	9	15	4	12	nw.	W. S. Guiles.
State College	Center	1,217	43	38.4	+3.1	64	8 [†]	-3	3	37	2.60	-0.68	0.81	5.0	11	12	7	12	w.	C. A. Kern.
Towanda	Bradford	754	30	38.9	+4.5	75	26	3	3	48	1.87	-0.88	0.38	5.2	16	12	4	15	s.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	69	36.6	+3.9	76	26	1	2	52	2.14	-1.11	0.60	11.0	9	15	4	12	sw.	George W. Hill.
West Chester	Chester	455	87	42.8	+4.5	70	26 [†]	6	3	33	2.74	-1.33	0.98	1.1	7	16	5	10	nw.	Arthur M. Hay.
Williamsport	Lycoming	521	38	41.0	+4.4	73	26	1	3	42	2.30	-1.05	0.63	0.5	11	14	4	13	nw.	George A. Beck.
York	York	400	37	43.6	+4.2	77	26	8	3	46	2.07	-1.23	0.56	T.	8	17	5	9	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	52	42.7		76	26	2	3	43	1.92	-1.63	0.56	2.0	12	13	2	16	sw.	U. S. Engineer.
Bradford	McKean	1,427	10																	City Engineer.
Bradys Bend	Armstrong	930	7	36.0		74	26	3	2	53	2.71		0.71	3.0	11	15	7	9		Edward R. Dewey.
Brookville	Jefferson	1,173	34	35.5 ^b	+2.6	73 ^b	26	-5 ^b	3	48 ^b	2.31	-0.75	0.65	1.0	5	18	8	5		John Fawcett.
Claysville	Washington	1,150	21	43.2	+2.6	77	26	3	3	40	2.17	-1.15	0.53	0.6	11	15	5	11	u.	J. L. Melvin.
Corry	Erie	1,430	13	34.6		65	26 [†]	-3	3	38	4.02		0.75	8.4	19	13	9	9		Nevin R. Dickson.
Derry	Westmoreland	1,172	28	43.0	+2.9	77	26	4	3	45	2.62	-1.44	0.54	T.	14	8	13	10	w.	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	7	39.2		73	26	2	3	49	1.86									

Daily Precipitation for March, 1925

Stations	Drainage Basin	Day of month																															Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Atlantic Drainage.																																			
Allentown|||	Lehigh		.72			*	.12						.24		.02	.01		.05	.34	.63									.51	.03	.08		2.75		
Altoona	Juniata	.50	.09									.13	.28		.13	.02		.45	.15										.43	.03		.01	2.22		
Ansonia|||	W. Br. Susq.	T.	.36		.01	.03						.01	.04		.15	.11	T.	.02	.06	.41						.13				.74	.02	T.	T.	2.09	
Baker's Summit	Juniata	.66										.05	.33		.07			.37		.41								.13					.02	2.42	
Bethlehem	Lehigh	.70				.14						.20	*					.45	.02	.65									.27	.37	.08		2.88		
Biglerville	Susquehanna		.20			.13							*					.39		.40									.58	.41			2.11		
Bloersville	Lower Susq.	.60								T.		.10			T.		.50	T.	.30										.30	.80			2.60		
Bustleton	Lower Del.	1.48				.10	T.					.03						.42		1.10									.82		.18		4.13		
Carlisle	Lower Susq.	.34				.12						.26						.36		.32									.45	.25		.02	2.13		
Catawissa	N. Br. Susq.	.01	.36			.10						.40				.15		.32	T.	.15						.03			.77	.04		.01	T.	2.34	
Center Hall	Susquehanna	.42				.12						.12			.01	.07		.11								.12		1.18	T.					2.15	
Chambersburg	Potomac	.52				.06						.03	.39					.61		.38									.58	.21	T.			2.78	
Clearfield	W. Br. Susq.																																		
Coatesville	Lower Del.	.72				.36							.03					.27		.94									.28	.32		.06		2.98	
Colebrook	Lower Susq.	.56	T.			.17						.03	.36	T.		.01		.31	.01	.41						T.			.71	.45	.03	.03	.07	3.15	
Conshohocken	Schuylkill	1.17	T.			.33						.04	*		T.	T.		.32		.02									.41	.20	T.	.20		2.69	
Cresson|||	Juniata		.55										.50		.02	.20	T.	.30	*	.15									.15	*	.10	.08		2.05	
Doylestown	Lower Del.	1.01				.30	.04					.05						.34		.92									.48	.05	.24			3.43	
Driftwood	W. Br. Susq.	.30	.01		T.	T.					.02	.03		.03	.13	T.		.15		.30							.11		.50	.10	T.		T.	1.68	
Emporium	do.	.50	.40								T.	T.		.16	.21	T.		.19	.15	.61						.11		.52	T.	.08			2.93		
Ephrata	Lower Susq.	.63				.23						T.	.25	T.				.27		.67									.32	.31		.02	T.	2.70	
Forest City	N. Br. Susq.	.11	.12			.03					.10		.18	.26				.33		.24									.06	.43	.06			1.92	
Freeland|||	Lehigh		.43	*		.01	.04					.03	.55		.04	.18		.06	.20	.27						T.		1.	.95	.56	.10	T.		3.42	
George School	Lower Del.	1.47	T.			.16	.06					.05						.39	T.	.66									.29	.53	T.	.19	T.	3.80	
Gettysburg	Potomac	.18				.14						.10			T.			.40	.01	.46									.44	.28	T.		.06	2.07	
Girardville|||	Susquehanna	.35	.05			.08						.52		.17				.34	.04	.40					T.				.68	.24	.07	.06		3.00	
Gordon	Lower Susq.	.28				.07						.37		.07	T.			.38		.32						.02			.76	.27	.03		.09	2.66	
Gouldsboro||	Lehigh	.18	.15			.05						T.	.34	.15	.25			.34		.24									.70	.50		.08	.04	3.02	
Graterford	Schuylkill	1.38				.21						.09		.03				.16		.28									.05	.29	.08	.07		2.64	
Hamburg	Schuylkill	.61				T.						.31		.03				.25	.21	.63									.81	T.				2.85	
Hanover	Lower Susq.	.24	.01			.16						.13		.01				.32	.02	.53									.42	.44	.06		.03	2.06	
Harrisburg**	do.	.24	.02			.10						.39		T.				.32	.02	.29							T.		.86	.18	T.	.01	T.	2.43	
Harrisburg East	do.		.25			.12						.35		.01				.31		.28									.73	.31	T.	.03		2.39	
Harrisburg North	do.		.27			.11						.31						.32		.25									.64	.45			T.	2.35	
Hawley|||	Upper Del.	.04				.03						.37		.08	.16			*	.23	.13	T.					.05			1.06	.19				2.34	
Holtwood||	Lower Susq.		.35		.17	.05						T.				.11		1.01											.30	.03	.35	.14	.01	2.52	
Huntingdon	Juniata	.36	T.			.06						.04	.30	T.	.06	T.		.43	.02	.18							T.		.55	.13	T.			2.13	
Jersey Shore	W. Br. Susq.																																		
Kennett Square	Delaware											.17						.17		1.08									.28	.45		.10		2.85	
Lancaster	Lower Susq.	.41				.19						.17						.17		1.08									.28	.45		.10		2.85	
Lansford|||	Lehigh	*	.62		T.	T.	.01					T.	.45		.05	*	.10	.10	.27	.39										.79	*	.03		2.81	
Lawrenceville	N. Br. Susq.	.52	.10			.10							.05	.10	T.			.30											.60	.10	.05	T.	T.	1.92	
Lebanon	Lower Susq.	.56	T.		.02	.06						.32		T.				.18	.33							T.		T.	1.03		.02	.10		2.70	
Leolyn|||	W. Br. Susq.		.27			* .05					.05			.25	*	.08		*	.45	.34							.11			.60	*	.40		2.60	
Lewisburg	do.	.76				.05						.06	.30	T.	.06			.40	.01	.16						.02			.30	.29	T.			2.41	
Lloyd	do.	.36	T.			.24						.14		T.				.24		.24						.18			.65	.20				1.77	
Lock Haven	do.	.83				T.						.09		T.				.31		.22									.30	.34	T.			2.09	
Lykens	Susquehanna	.21	.08			.03						T.	.41	T.				.31		.13									.43	.59	T.	T.	T.	2.19	
Mauch Chunk	Lehigh	.67	.04			T.						.45		.15	T.			.42		.57									.63	.45	T.	.03		3.41	
Mifflintown	Juniata	.43	.01			.06						.01	.27	.01				.23		.17									.40	.09	T.			1.68	
Montrose	N. Br. Susq.	.30				.10								.60	T.			.27		.25						.10			.60	.30				2.52	
Mount Pocono	Upper Del.					.10																													
Mount Union|||	Juniata																																		
Muncy Valley	W. Br. Susq.	.48	T.			T.						T.	.12	T.	.30			.47		.32							.08		.41	.39	T.				

Daily Precipitation for March, 1925—Continued from page 13

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio.	.30		T.							.03	.12			.40	.16		.04	.19	.24							*	.41		.02	.01		1.92	
Beaver Falls|||	Beaver.	.23	T.	T.	.01						T.	.11	T.		.28	.12	T.	.07	T.	.61	T.						T.		.27	.26	.02	.03	T.	2.01
Bradford	Allegheny																																	
Bradys Bend	do	.40	.15		T.						.02	.14		T.	.40			.10	.19	.55									.71	T.	.03		.02	2.71
Brookville	do	.50		T.							T.	.15			.41				.65									.60			T.			2.31
Clarion	do	.47	.01	.02								.14			.03	.32			.15	.17	.55								.80		.02		.01	2.69
Claysville	Ohio.	.26	.01		T.						T.	.53	T.	.02	.32	T.		.14	.21	.23									.39	.01	.05	T.		2.17
Cloe	Allegheny	.38									.19		.03	.28				.18	.08	.22									.35					1.71
Clymer	Conemaugh	.40	.10								.18	.17			.20			.21	.02	.31									.46	.06	.04			2.15
Colegrove|||	Allegheny																																	
Confluence|||	Youghiogheny		.75								.05	.27			.14			.07	.17	.15									.03	.30	.12	.05	.01	2.11
Coraopolis|||	Ohio.	T.	.30	T.		T.					T.	.19	.05		.24	T.	T.	.13	.01	.62									.43	.33	.01	.01	.01	2.33
Corry	Allegheny.	.70	.07	T.	.14	.01					.09	.52	.01	.13	.68	.05		.12	.12	.39	.01							.10	.75	T.	.09	.01	.03	4.02
Coudersport	do	.21		.05							.15				.48		.01	.16		.72					.12				.71		*	.12		2.73
Creekside	Allegheny	*	.45		.08						.35		*	.42				.25	*	.38									.48		.06			2.47
Derry	Conemaugh	.26	.03	.03							T.	.33	.43		.19	T.		.30	.10	.19									.54	.03	.06	.02	.11	2.62
Ebensburg	Conemaugh.	.25									.32	.20			.20			.26	T.	.21									.42					1.86
Elk Lick	Youghiogheny		.20								.48				.10			.50	.25	.10									.55	.30				2.48
Falls Creek	Allegheny	*	.51								.02	*	.06	.02	.34			.19	*	.49									.43		*	.03		2.09
Franklin|||	Allegheny		.39		.10	T.					.45			.39	.16	*		.09	.05	.75							.08		.38	.43	T.	.04		3.31
Freeport|||	Allegheny	T.	.42	T.							.15	.03		.28	.08		.18	T.	.56										.23	.28	.05	T.		2.26
Greensburg	Youghiogheny	.22	.02	T.	T.						T.	.30	.31		.24	.02		.29	.17	.19									.70	T.	.05		.02	2.53
Greenville	Beaver	*	.20		.13						.25	T.		.10	.55	.01		.10	.14	.50							.08		.60	*	.12			2.78
Grove City	Beaver	.46	.15	.02	.11						.03	.32			.38	.02	.01	.19	.58								T.	T.	.45		.06	.04		2.82
Herrs Isl. Dam|||	Ohio.	T.	.03	T.		T.					.16	T.			.15	T.	T.	.15	T.	.47	T.								.10	.40	.01	T.	T.	1.47
Indiana	Conemaugh.	.35	.15								.16	.18	T.	.35				.27	.10	.30									.50	.03	.05	T.	.02	2.46
Ingram	Ohio.	.14	.08		.01						.19	.01		.20	T.		.18	.20	.28										.42	.01	.02			1.74
Irwin	Youghiogheny	.20	T.								.10	.10		.12	T.			.28	.18	.21									.44	T.	T.	T.	.01	1.64
Johnstown	Conemaugh	.40	.09								.01	.49	.05	.01	.26	.01		.33	.05	.21	.02								.26	.01	.14	T.	.04	2.38
Ketner	Allegheny.	.23	.04		.03						.05	.16		.09	.43			.15	.06	.54							.14		.61	.04	.04	.03		2.64
Kregar|||	Youghiogheny	.53									.18	.47			.02	.27		.08	.12	.45									.02	.43	.06	.20	.12	2.95
Linesville|||	Beaver	.35	*	.13							.43	.03		.87	.04	*		.06	T.	.66						.05	*		.21	.11	.06	.05		3.05
Lock No. 4|||	Monongahela	.24	T.								.25	.36		.13	.18			.25	.03	.39									.12	.50	.02	.01	.03	2.51
Lycippus	Conemaugh.	.42	T.								T.	.51	.40	T.	.22			.21	.18										.62	.04	.11			2.71
Martin	Monongahela.	T.	.28								.16	.40		.03	.10		.18	.04	.38	T.									.05	.47	.12	.04	.04	2.29
New Castle|||	Beaver	.18		.15							.14	.65		.37		.10	.11	.03	.75						.06		.38	.14	T.			.03		3.09
Newell	Monongahela.	.20	.08								.54		T.	.16			.31	.34									.09		.64	.03				2.39
Parkers Landing|||	Allegheny	T.	.60	T.	T.	.05					.20	T.		.24	.05		.10	.02	.73	T.						T.			.45	.37	T.	T.	T.	2.81
Pennline|||	Beaver	.04	.20		.06	.01					.62	.01		.95	.02			.06	.69							.09			.09	.03	.03	.04		2.94
Pittsburgh**	Ohio.	.23	.04		T.						T.	.01	.21		T.	.20	T.	.18	.35	.03								.03	.28	T.	.05	T.	T.	1.61
Ridgway†	Allegheny																																	
Saltsburg|||	Conemaugh.	T.	.44								.05	.20		.10	.32		.13	.15	.48										.05	.57	.03	.03	.01	2.56
Saegerstown	Allegheny.	.70	.05	.01	.20						.01	.50		.50	.05		.10	.15	.50										.63		.20	.05		3.65
Sharon|||	Beaver	.22		.03	T.						.20		.33		T.		.09		.65							T.			.45	.10	T.			2.07
Somerset	Youghiogheny	.85									.45		.40		.25	.10	.20		.15											.45		.10	.05	3.00
Springdale|||	Allegheny	T.	.42								.02	.01		.02	.05		.01	.01	.53	T.									.15	.40		.01	.01	1.64
Uniontown	Monongahela.	.22	T.								.43	.36	.02	.16	.02		.28	.09	.27										.77	.04	.09	.03	.09	2.86
Unity Reservoir††	Youghiogheny	.28									.35	.42		.24			.33	.20	.15										.76					2.73
Vandergrift	Conemaugh.	.46	.06								.22	.10	.04				.15	.15	.35										.46					1.99
Warren	Allegheny.	.38	.04		.12						.18			.50			.14	.30	.74								.05		.70		.25			3.40
Washington	Ohio.	.27	T.		T.						T.	T.	.53		.12	.30	T.	.14	.53	T.		T.					T.	.08	.37	.02	.01	T.		2.37
Waynesburg|||	Monongahela.	.60									.60			.20	T.	.16		.40													.07	.02		2.05
Westford|||	Beaver	.05		.03	.15	.03					.35			T.		.68		T.		.67						T.		.19			.10	.10		2.35
West Newton|||	Youghiogheny		.31								.23	.24		.11	.16		.33		.35										.10	.64		.03		2.50
Lake Drainage.																																		
Erie***	Lake Erie.	.23	.02		.03	T.					T.	.44	.16		.20	.50	T.		.05	.47	.05		T.			.14	.05	T.	.25	T.	.03	.02		2.64
West Bingham	Genesee	.50			.10						.02	.03		.15	.50					.65								.20		.55	.20	.20	T.	3.10

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurement.

T.(trace) when precipitation is less than .01 inch.

§ Incomplete or missing.

†† Post Office address:—Greensburg.

† Daily amounts inconsistent.

Daily Temperatures for March, 1925

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	38	29	28	42	39	58	60	59	56	52	62	50	47	65	41	49	48	61	66	56	62	55	51	59	60	74	70	43	40	49	47	52.1
	Minimum	13	26	8	9	24	33	32	33	35	36	37	23	29	30	23	25	35	39	39	32	37	30	28	31	33	36	32	32	32	38	29.9	
Altoona.....	Maximum	32	36	29	37	36	52	59	67	61	59	61	50	45	64	50	48	44	55	51	45	63	51	64	64	76	70	41	35	45	45	51.1	
	Minimum	20	6	0	13	30	25	33	34	33	38	41	29	27	39	21	16	32	30	44	33	28	31	17	27	41	36	41	31	29	34	28.6	
Beaver Dam.....	Maximum	44	37	29	35	43	53	65	68	65	71	69	49	57	62	45	56	56	62	53	63	63	51	71	70	76	73	51	41	43	47	55.6	
	Minimum	23	9	2	23	30	23	28	33	34	35	43	25	27	45	22	22	40	35	40	36	31	27	21	28	40	34	43	35	31	31	29	29.8
Bradford.....	Maximum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bradys Bend.....	Maximum	37	37	26	34	43	43	57	57	57	64	64	48	51	51	38	52	52	51	50	50	60	60	47	68	66	74	72	47	39	38	42	50.8
	Minimum	9	3	12	13	17	19	18	24	27	28	37	29	11	32	13	10	28	25	33	21	18	20	9	15	35	21	36	25	24	23	21.3	
Brookville.....	Maximum	41	17	25	34	43	43	57	66	53	70	56	48	46	59	34	54	47	58	57	51	61	48	53	67	73	73	38	33	42	43	48.9 ^b	
	Minimum	12	-4	-5	15	21	23	24	27	30	32	32	21	20	25	15	12	33	32	30	33	21	19	13	21	25	28	29	29	28	22.1 ^b		
Carlisle.....	Maximum	36	32	30	41	37	59	63	61	55	54	67	60	53	69	58	50	49	52	60	58	63	60	55	62	70	77	72	47	44	53	51	54.8
	Minimum	24	15	7	18	33	28	31	33	35	37	39	37	28	41	29	21	34	32	48	37	28	37	28	26	34	33	46	36	34	35	39	31.7
Catawissa.....	Maximum	34	28	35	41	40	58	63	63	56	55	69	53	53	63	43	50	48	55	63	60	62	56	54	62	65	79	65	42	46	46	49	53.4
	Minimum	22	19	3	22	29	24	25	27	32	32	39	30	23	34	26	12	35	35	49	28	27	33	25	23	33	28	33	31	33	33	28.2	
Chambersburg.....	Maximum	32	39	30	42	37	58	61	65	57	56	68	56	50	68	57	50	47	51	61	55	61	59	54	61	69	74	68	45	41	49	51	53.9
	Minimum	19	16	7	17	32	28	28	30	36	33	36	35	26	38	29	20	34	33	45	35	27	36	26	26	36	32	45	36	32	32	39	30.5
Claysville.....	Maximum	44	34	33	36	44	56	68	72	69	73	70	54	64	64	49	50	55	53	60	55	64	61	54	73	71	77	74	47	47	47	56.4	
	Minimum	25	10	3	28	29	18	28	45	32	46	41	24	26	43	22	21	39	34	39	34	30	24	19	33	43	37	41	33	27	28	29	30.0
Clearfield.....	Maximum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coatesville.....	Maximum	40	36	28	45	36	56	62	60	55	52	65	56	48	65	56	49	49	62	70	55	60	56	51	58	65	71	70	44	41	51	48	53.5
	Minimum	15	13	6	15	31	34	38	31	37	30	44	34	22	40	24	17	31	32	46	40	25	38	27	25	38	32	44	35	32	30	39	30.5
Corry.....	Maximum	31	31	23	31	30	43	48	55	52	61	61	40	40	39	29	51	47	50	49	42	44	40	44	63	63	65	65	41	34	36	41	44.8
	Minimum	20	0	-3	20	25	18	26	32	30	42	31	19	24	21	14	17	33	28	30	25	30	27	15	25	32	30	36	28	25	27	26	24.3
Emporium.....	Maximum	38	34	27	36	38	48	56	66	50	63	60	46	42	60	34	48	46	55	57	59	63	49	48	65	61	73	56	41	35	46	43	49.8
	Minimum	22	4	-10	12	28	24	25	31	35	40	42	26	20	30	23	12	33	34	40	26	22	30	15	20	39	25	41	32	30	35	26.3	
Erie.....	Maximum	38	14	30	32	35	51	58	56	49	66	52	59	47	57	27	54	48	55	59	42	60	37	37	70	51	74	58	37	33	38	41	46.6
	Minimum	14	3	6	28	27	22	36	33	32	48	31	25	34	25	18	22	38	39	33	32	37	29	23	36	33	46	36	33	29	33	31	29.4
Franklinss.....	Maximum	42	17	31	35	45	53	59	65	54	68	51	49	54	60	35	59	53	61	45	51	59	46	55	69	64	75	57	38	37	40	46	50.7
	Minimum	1	6	0	2	26	22	23	28	33	34	37	23	23	28	18	17	19	30	33	29	27	31	18	19	27	28	31	30	29	28	27	23.5
Gettysburg.....	Maximum	32	38	34	47	43	56	63	64	57	54	68	61	53	68	58	53	47	52	63	60	64	61	54	62	73	75	71	48	43	49	52	55.6
	Minimum	26	20	6	20	32	30	38	30	35	33	41	36	27	40	30	19	35	36	45	35	28	38	27	25	37	32	33	36	30	38	31	31.2
Greensburg.....	Maximum	45	35	29	37	45	53	65	68	63	72	67	49	57	64	38	58	51	61	60	52	65	60	53	70	63	75	71	41	35	44	45	54.5
	Minimum	25	10	5	26	31	27	31	44	32	48	46	29	27	38	21	21	39	30	42	35	33	31	20	30	43	36	37	34	29	30	33	31.1
Grove City.....	Maximum	41	34	27	34	41	51	61	64	63	66	52	46	48	60	34	54	51	53	58	54	61	49	55	68	61	73	60	45	42	47	45	51.5
	Minimum	22	6	4	23	26	22	28	44	32	44	37	25	32	34	18	22	37	39	30	34	29	18	35	37	32	40	38	28	33	27	29.5	
Hamburg.....	Maximum	38	31	25	39	40	54	58	58	52	52	50	46	54	61	60	46	45	55	48	53	56	44	43	50	63	72	71	50	44	40	41	49.8
	Minimum	26	13	6	15	33	30	31	32	31	32	31	33	34	22	40	17	30	34	33	34	32	30	27	23	32	29	36	34	31	33	32	28.9
Harrisburg.....	Maximum	38	38	29	42	38	55	62	61	54	53	63	51	44	66	41	46	46	54	61	54	61	52	49	59	64	72	62	44	38	50	48	51.5
	Minimum	24	10	9	24	33	34	37	38	37	38	42	38	32	39	30	26	34	46	40	36	39	31	32	42	40	41	36	34	36	39	33.9	
Hawley.....	Maximum	39	40	26	37	38	51	58	60	58	51	61	59	50	60	60	44	44	57	63	55	57	54	47	56	60	73	72	59	36	41	43	51.9
	Minimum	8	17	3	11	26	31	32	32	28	40	28	11	34	24	11	28	31	23	19	31	23	17	39	24	38	31	29	32	35	26	24.4	
Huntingdon.....	Maximum	35	37	32	36	36	55	62	69	64	61	63	57	45	71	53	55	46	53	58	55	66	63	53	65	68	78	69	45	39	50	49	54.5
	Minimum	15	11	3	12	27	22	24	26	35	33	34	32	22	41	26	14	32	36	45	34	22	32	20	19	41	26	43	35	32	37	27.9	
Indiana.....	Maximum	44	44	28	36	43	53	63	68	65	71	70	50	49	63	38	55	50	60	60	55	63	60	52	70	65	75	63	45	40	47	46	54.5
	Minimum	24	7	-2	17	29	25	28	37	32	47	22	28	38	20	20	32	39	32	29	28	12	28	42	32	40	30	28	28	29	32	28.5	
Johnstown.....	Maximum	42	32	30	40	43	54	64	68	60	72	59	50	47	64	36	54	47	64	60	52	65	60	57	72	64	78	58	42	34	45	44	53.5
	Minimum	18	8	6	19	33	29	30	33	36	37	45	32	28	36	22	20	36	35	42	36	28	34	23	27	43	34	42	32	30	31	36	30.4
Lancaster.....	Maximum	37	38																														

UNP

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

MAY 28 1925

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXX.

APRIL, 1925.

No. 4

GENERAL SUMMARY.

The month as a whole was mild, the mean temperature being equalled or exceeded only four times in April during the 38 years of the State Weather Service. However there was a cold period at the end of the third week when frosts and freezing temperature did considerable damage. Vegetation was getting an early start, and peaches were mostly in full bloom when the frosts occurred. Many correspondents reported the peach crop entirely ruined in their districts, and it seems that three-fourths of it must have been destroyed for the State as a whole. Another cold period occurred at the close of the month, with damaging frosts in many places. At the close of the month vegetation was generally reported as advanced a little beyond the average for the season, and field work was well in hand. Winter wheat was coming out in fine condition, pastures were beginning to furnish feed in the southern counties, oats was mostly seeded except in the northern part of the State, and gardens were getting a good start. On the 19th there was heavy damage by wind storms in the central and southwestern counties with evidence of tornado action in several places. At Newell a well defined funnel shaped cloud was observed, doing its greatest damage over a path about 300 yards in width. The damage in that vicinity was estimated at about \$25,000. At Belleville the damage was over a narrow path, although no funnel shaped cloud was seen. The damage was estimated at about \$100,000. At Irwin the wind seemed to be of a rotary character. Damage from \$12,000 to \$15,000. Heavy damage occurred in other places where the storm seemed to be a straight wind. Many houses were unroofed, a few were destroyed, and many barns were destroyed.

TEMPERATURE.

The mean temperature for the State, as determined by reports from 83 stations was 51.3°, or 2.5° above the normal for April. The highest mean was 56.8°, at Germantown, Philadelphia, and the lowest, 41.9°, at Freeland. The highest temperature for the month, 96°, occurred at four stations: Carlisle, Gettysburg, Lewisburg, and Williamsport, on the 24th. The lowest temperature registered during the month, was 9°, at West Bingham, on the 6th. The greatest daily range was 57°, at Brookville, on the 23d.

PRECIPITATION.

The average precipitation, from rain and melted snow, as deduced from the records of 130 stations, was 2.32 inches, or 1.02 inches less than the April normal. The greatest monthly total was 4.89 inches, at Somerset. and the least, 0.93 inch at Renova. The greatest amount in any 24 consecutive hours was 1.71 inches at Coatesville on the 15th. Snowfall for the State averaged 0.5 inch. The greatest monthly snowfall was 9.5 inches at Elk Lick, and the greatest 24-hour snowfall, 6.5 inches, occurred at Elk Lick on the 30th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total movement, in miles	Velocity, in miles per hour		
				8 a m	8 p m		Average	*Highest	Direction
Erie.....	257.4	401.1	64	72	72	9,497	13.2	42	s.
Harrisburg.....	271.4	398.6	68	64	56	5,357	7.4	35	w.
Philadelphia.....	257.9	398.6	65	67	63	7,266	10.1	27	n.
Pittsburgh.....	247.4	399.9	62	68	55	7,646	10.6	56	nw.
Reading.....	249.0	398.6	63	71	69	4,143	5.8	22	se.
Scranton.....	.....	.....	.....	80	68	5,234	7.3	37	sw.

* For any five-minute period.

COMPARATIVE DATA FOR APRIL

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	47.2	92	12	2.52	4.23	0.99	14	10	6
1889.....	49.7	88	14	4.50	8.15	2.09	11	8	11
1890.....	48.6	85	12	3.46	5.50	1.75	.....	.....	.....
1891.....	49.8	87	11	2.08	3.54	1.12	13	9	8
1892.....	46.9	85	14	2.04	4.43	0.61	10	10	10
1893.....	47.7	85	16	4.74	6.91	2.95	7	10	13
1894.....	48.0	83	5	3.62	10.00	1.69	11	8	11
1895.....	49.2	90	5	3.76	7.09	0.79	10	8	12
1896.....	53.0	97	4	1.75	3.39	0.20	10	10	10
1897.....	49.0	92	12	3.30	4.63	1.20	12	9	9
1898.....	45.6	84	4	2.93	5.34	1.36	9	8	13
1899.....	50.2	92	2	1.76	3.25	0.70	15	9	6
1900.....	49.2	90	13	1.57	2.80	0.60	14	8	8
1901.....	47.2	95	10	5.41	9.18	1.46	9	5	16
1902.....	48.0	91	20	3.56	7.14	1.34	8	10	12
1903.....	48.8	90	12	3.53	4.93	2.16	11	7	12
1904.....	44.7	86	9	3.45	6.42	1.34	8	8	14
1905.....	48.4	84	16	2.84	4.74	1.39	9	11	10
1906.....	50.0	89	12	3.13	6.96	0.75	14	8	8
1907.....	43.6	84	8	2.64	4.42	1.02	10	7	13
1908.....	49.8	89	0	3.51	6.31	1.85	12	8	10
1909.....	48.5	87	8	5.39	8.42	2.67	10	9	11
1910.....	52.6	89	18	5.07	8.50	2.21	10	9	11
1911.....	46.2	84	6	3.79	5.85	1.66	11	7	12
1912.....	50.2	83	18	4.39	7.31	2.41	10	7	13
1913.....	50.6	90	17	3.82	9.28	1.46	12	6	12
1914.....	47.3	93	5	4.66	7.50	1.90	10	8	12
1915.....	53.9	98	15	1.92	4.41	0.46	13	10	7
1916.....	48.0	87	16	3.65	7.40	1.65	9	9	12
1917.....	48.5	87	14	2.08	4.89	0.41	11	10	9
1918.....	48.2	81	12	4.53	2.41	0.30	10	9	11
1919.....	48.5	90	6	2.70	4.76	0.90	10	10	10
1920.....	46.0	87	8	4.39	11.34	2.44	9	9	12
1921.....	55.3	96	10	3.11	5.06	1.12	13	7	10
1922.....	50.1	91	11	3.17	6.10	1.28	12	9	9
1923.....	48.3	89	-5	2.94	5.89	1.00	14	8	8
1924.....	46.5	82	6	4.15	7.52	1.77	13	7	10
1925.....	51.3	96	9	2.32	4.89	0.93	15	7	8

RIVER CONDITIONS

Stations	Rivers	Mean stage		Highest stage		Lowest stage		Flood stage	
		Mean	High	Lowest	High	Lowest	High	Lowest	High
Port Jervis.....	Delaware.....	4.2	5.4	1	3.5	14	18	18	18
Phillipsburg.....	Delaware.....	3.7	5.5	2	2.5	20	22	22	22
Mauch Chunk.....	Lehigh.....	3.8	4.1	1	3.6	17	12	12	12
Wilkes-Barre.....	Susquehanna.....	7.0	9.8	1	5.3	20	20	20	20
Williamsport.....	Susquehanna.....	2.5	4.2	1	2.0	16	20	20	20
Harrisburg.....	Susquehanna.....	4.9	6.0	1	4.4	16	17	17	17
Freeport.....	Allegheny.....	4.8	6.6	22	3.7	14	22	22	22
West Newton.....	Youghiogheny.....	1.6	2.8	3	1.0	24	20	20	20
Lock No. 4.....	Monongahela.....	14.8	16.9	6	13.4	26	31	31	31
Pittsburgh.....	Ohio.....	9.0	10.6	1	8.0	14	22	22	22
Beaver Dam.....	Ohio.....	8.5	10.1	4	7.3	20	30	30	30

Climatological Data for April, 1925

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days			Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear			Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	13	50.0	.....	86	23	23	21	47	1.62	-2.22	0.31	0	10	14	13	3	e.	John A. Frick.
Altoona	Blair	1,615	38	51.4	+3.2	89	24	23	21	43	2.41	-0.46	0.70	0	10	20	7	3	w.	Lewis E. Biller.
Bethlehem	Northampton	295	41	53.6	+1.7	86	23	28	21	38	2.58	-0.57	0.96	0	9	4	21	5	nw.	Rev. R. H. Brennecke, Jr.
Biglerville	Adams	652	3	53.1 ^b	.....	93 ^b	24	25 ^b	7	41 ^d	2.34	.....	0.67	T.	8	16	5	9	.....	R. C. Walton.
Bustleton	Philadelphia	125	6	52.2	.....	83	23	28	7	41	2.70	.....	0.52	0	10	15	5	10	e.	Experiment Station.
Carlisle	Cumberland	467	58	54.0	+1.8	96	24	24	4	44	2.29	.....	0.65	T.	9	19	1	10	ne.	Prof. C. E. Miller.
Catawissa	Columbia	520	28	51.6	+0.3	95	24	22	21	46	1.74	-1.67	0.76	T.	9	20	3	7	.....	H. H. Yetter.
Center Hall	Center	1,272	29	48.5	-0.4	93	24	21	6	45	2.17	-0.97	1.34	1.0	6	20	5	5	.....	S. W. Smith.
Chambersburg	Franklin	580	25	54.0	+4.2	94	24	25	7	43	2.10	-0.74	0.66	T.	11	16	8	6	ne.	William B. Spear.
Clearfield	Clearfield	1,120	15	46.6	-1.7	86	23	20	6	44	1.67	-1.74	0.70	T.	9	14	11	5	sw.	E. W. Hess.
Coatesville	Chester	380	37	51.8	+1.0	82	23	23	6 [†]	41	4.87	+1.24	1.71	0	13	15	8	7	n.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	15	51.0	.....	82	24	25	21	38	3.25	-0.95	0.67	T.	15	18	3	9	n.	Wm. A. Rorer.
Emporium	Cameron	1,050	37	49.0	+1.9	89	24	16	6	51	2.34	-0.99	0.61	T.	9	16	9	5	w.	T. B. Lloyd.
Ephrata	Lancaster	380	24	53.1	+3.1	83	23 [†]	27	6 [†]	41	3.36	-0.19	0.86	0	11	15	6	9	n.	E. K. Hershey.
Freeland	Luzerne	1,970	10	41.9	.....	78	23	15	21	38	1.51	.....	0.46	3.5	10	15	6	9	sw.	Theo. Reichmann.
George School	Bucks	190	18	51.9	+1.8	83	23	24	7	44	2.47	-1.13	0.51	0	13	18	6	6	e.	Prof. N. W. Swayne
Gettysburg	Adams	600	51	54.8	+4.4	96	24	26	6 [†]	45	2.64	-0.96	0.66	0	12	13	9	8	nw.	Col. E. B. Cope.
Gordon	Schuylkill	840	21	49.5	+1.6	85	23 [†]	17	21	45	2.06	-2.60	0.65	T.	7	19	3	8	n.	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875	1	45.0	.....	76	23 [†]	21	17	39	1.79	-2.91	0.42	T.	9	15	4	11	s.	Gustav Holtz.
Hamburg	Berks	535	32	50.0	-0.4	85	23	25	6 [†]	42	1.86	-2.39	0.71	0	6	15	9	6	w.	State Sanatorium.
Hanover	York	600	21	54.2	+1.2	91	24	28	21	34	2.60	-0.69	0.57	T.	12	17	4	9	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	55	53.3	+2.4	86	24	31	6	32	2.06	-0.43	0.63	T.	11	11	8	11	ne.	U. S. Weather Bureau.
Hawley	Wayne	900	6	48.3	.....	81	26	19	6	46	1.87	.....	0.54	0	9	16	9	5	w.	J. S. Pennell.
Holtwood	Lancaster	200	10	53.6	.....	84	23	33	7	34	2.10	.....	0.45	0	10	15	5	10	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	37	52.6 ^a	+3.0	93	24	19 ^a	6	52 ^a	2.02	-1.35	0.61	0	12	19	6	5	w.	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Kennett Square	Chester	340	53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster	Lancaster	255	37	53.8	+3.0	87	24	25	6 [†]	43	3.48	-0.06	1.22	0	9	20	2	8	e.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	27	49.9	+4.1	92	24	18	6	48	2.75	-0.39	1.45	T.	7	15	8	7	w.	C. P. Darling.
Lebanon	Lebanon	469	84	51.4	+0.9	85	23	28	6 [†]	39	3.58	+0.21	1.09	T.	15	16	7	7	w.	S. B. Benzinger.
Lewisburg	Union	450	50	52.6	+4.4	96	24	21	6	47	1.54	-1.98	0.65	T.	7	17	6	7	w.	Prof. W. G. Owens.
Lock Haven	Clinton	580	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles Dunn.
Lykens	Dauphin	680	10	51.8	.....	88	23	18	21	47	2.08	.....	0.49	T.	8	17	6	7	nw	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	34	49.8	+1.0	85	23	21	6	44	2.01	-1.91	0.68	0	6	18	3	9	w.	R. K. Wintermute.
Midlinton	Juniata	445	21	53.4	+3.6	95	24	22	6	49	2.09	-1.82	0.53	T.	10	17	6	7	w.	Wellington Smith.
Montrose	Susquehanna	1,720	22	44.6	+0.5	86	24	18	21	40	3.05	-0.45	0.80	3.0	9	18	6	6	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	13	49.8	.....	88	24	18	21	45	2.21	-2.32	0.78	T.	8	14	12	4	w.	A. H. Boatman.
Narberth	Montgomery	300	6	52.6	.....	82	23 [†]	28	21	38	3.65	.....	0.79	0	13	15	6	9	ne.	Charles Decker.
Neshaminy Falls	Bucks	60	36	51.0	.....	83	23	22	7	43	2.34	.....	0.70	0	10	16	5	9	w.	North Springfield Water Co.
Palmerton	Carbon	398	8	50.3	.....	88	23	24	21	41	1.88	.....	0.63	0	9	14	9	7	ne.	F. G. Breyer.
Philadelphia (a)	Philadelphia	114	54	54.9	+2.8	84	23	34	21	34	2.43	-0.48	0.58	0	13	13	9	8	sw.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	9	53.8	.....	83	23	32	7	35	2.87	.....	0.70	0	12	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	.....	54.6	.....	83	23	34	21	34	2.83	.....	0.60	0	12	13	8	9	sw.	Atlantic Refining Co.
Philadelphia-Gtn.	Philadelphia	113	.....	56.8	.....	86	23	32	21	32	3.00	.....	0.59	0	10	10	9	11	.....	Julius Bernstein.
Phoenixville	Chester	100	14	52.7	.....	85	23 [†]	22	6	40	3.25	.....	1.18	0	11	19	9	2	w.	North Springfield Water Co.
Quakertown	Bucks	496	40	50.5	+2.1	84	23	24	7	43	2.19	-1.04	1.10	0	8	17	6	7	nw.	John E. Benuer.
Reading	Berks	325	55	52.6	+2.3	84	23	31	21	32	3.10	-0.12	1.33	T.	13	15	6	9	nw.	U. S. Weather Bureau.
Seranton	Lackawanna	805	30	49.4	+1.3	84	24	26	21	35	1.55	-1.10	0.46	0.3	8	10	12	8	nw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	35	51.3	+1.4	90	24	22	6	43	1.91	-1.63	0.70	0	8	16	8	6	sw.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	29	53.6	.....	83	23 [†]	30	7	36	2.89	-0.28	0.46	0	13	12	8	10	nw.	W. S. Guiles.
State College	Center	1,217	43	49.6 ^a	+1.9	90 ^a	24	20	6	42 ^a	2.96	-0.32	1.23	T.	10	18	9	3	ne.	C. A. Kern.
Towanda	Bradford	754	30	47.7	+1.1	90	24	20	6	44	1.94	-0.99	0.64	2.0	9	12	5	13	e.	Hiram F. Bull, C. E.
Wellsboro	Tioga	1,419	59	46.8	+2.2	91	24	15	6	52	2.38	-1.20	0.65	1.0	5	19	5	6	sw.	George W. Hill.
West Chester	Chester	455	87	51.8	+2.1	81	23	27	21	36	4.17	+0.39	1.08	T.	13	18	4	8	nw.	Arthur M. Hay.
Williamsport	Lycoming	521	38	53.4	+4.8	96	24	25	6 [†]	46	1.36	-2.02	0.68	T.	9	21	4	5	nw.	George A. Beck.
York	York	400	37	53.1	+2.4	89	24	23	6	44	3.16	+0.13	0.83	0	12	17	5	8	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	32	54.8	.....	91	24	27	7	44	1.68	-1.45	0.63	0	10	16	1	13	sw.	U. S. Engineer.
Bradford	McKean	1,427	10	48.7 ^a	.....	89 ^a	24	14 ^a	6	53 ^a	3.58	.....	1.60	T.	7	.....	.....	.....	.....	City Engineer.
Bradys Bend	Armstrong	930	7	47.9	.....	89	24 [†]	13	6 [†]	53 [†]	2.67	.....	1.16	T.	9	13	15	2	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	34	47.0 ^b	+1.2	89 ^b	25	11 ^b	6	57 ^b	1.43	-1.43	0.60	T.	5	21	5	4	.....	John Fawcett.
Claysville	Washington	1,150	21	54.2	+3.6	93	24	26	31	49	2.08	-1.41	0.44	T.	11	17	4	9	e.	J. L. Melvin.
Corry	Erie	1,430	13	47.2	.....	84	24	20	6	41										

Daily Precipitation for April, 1925

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh		.21	.04								.31				.10		.01	.04	.27							.08		.27	.29		1.62		
Altoona	Juniata	.02	.12								.05				.14	.45		.05		.43							.15		.30		.70		2.41	
Ansonia|||	W. Br. Susq.																																	
Baker's Summit	Juniata		.12								.15					.12		.09		.24				.12		.02				.40	.75		2.01	
Bethlehem	Lehigh		.24								.14	.35				.96				.28	.02						.15		.09	.35		2.58		
Biglerville	Susquehanna		.04								.07					.49		.19		.43						.17		.28		.67		2.34		
Blosserville	Lower Susq.		*								*					.45				.71							.25		.10		.75		2.26	
Bustleton	Lower Del.		.20								.23	.19				.30		.29		.16							.20		.52	.21	.40		2.70	
Carlisle	Lower Susq.		.05								.02	.08			T.	.32		.07		.65			T.			.30	.22			.58		2.29		
Catawissa	N. Br. Susq.		.02	.02							.02				.13	.21				.16						.40	.02			.76		1.74		
Center Hall	Susquehanna		.14								.24					.12				1.34						.11	.22					2.17		
Chambersburg	Potomac		.03								.04				T.	.29		.07		.27				.04		.13	.24		.31	.02	.66		2.10	
Clearfield	W. Br. Susq.		.04	.06							.07	T.				.08		.07		.35							.16	.14		T.	.70		1.67	
Coatesville	Lower Del.		.22								.25	.01				1.71		.32		.34				.04	.12	.06	.67	.69	.01	.43		4.87		
Colebrook	Lower Susq.		.01	.13	.01						.15	.04				.67	.25		.10	.01	.32				.10	.24	.32		.26	.64		3.25		
Conshohocken	Schuylkill		.03								.33					.98	.02		.44		.12				.09	T.	.18		.74	.45		3.38		
Cresson|||	Juniata		.30								*	.12				.60			*	.15		.30		.15			.16		.10	.42	.40		2.70	
Doylestown	Lower Del.																																	
Driftwood	W. Br. Susq.		.05	.11							.26	T.				.09	.12	.02		.04							.10	.01		.50		1.30		
Emporium	do.		.13	.09							.32					.23	.15	.10		.11						.60			.61			2.34		
Ephrata	Lower Susq.		.28								.18					.86	.02		.20	.24				.10		.22	.40		.30	.56		3.36		
Forest City	N. Br. Susq.		.07								.10		T.			.55				.13	.49					.21	.15		.51			2.21		
Freeland|||	Lehigh		T.	.25	.07						.08	.01				.46				.08	.09	T.		.02			.40			.05		1.51		
George School	Lower Del.		.17								.13	.28				.51	.02	.02	.18	.04	.05				T.	.06		.36	.28	.37		2.47		
Gettysburg	Potomac		.04								.06	.06				.44		.10	.06	.49						.08	.23		.38	.04	.66		2.64	
Girardville|||	Susquehanna		.02	.18							.10					.18	.44			.11				.01		.37		.06	.62			2.10		
Gordon	Lower Susq.		.18								.06				T.	.33				.11						.55		.18		.65		2.06		
Gouldsboro|||	Lehigh		.06		.02						.15					.42	.15			.21	.22				.22				.34			1.79		
Graterford	Schuylkill		.28								.09	.16				.72				.02	.11							.03	.51	.19	.16		2.27	
Hamburg	Schuylkill		.23								.17					.71				.29							.24		.22				1.86	
Hanover	Lower Susq.		.10								.05	.20				.14		.18	.07	.39						.10	.36		.34	.08	.57		2.60	
Harrisburg**	do.		.01	.01							.08					.30	.15		.07	.36					.05		.27		.13		.63		2.06	
Harrisburg East	do.		.05	.05							.06	.04				.54			.06	.05	.33				.04		.28			.69		2.14		
Harrisburg North	do.		.05	.05							*.07					.37		.09	.49		.33			.04			.36	T.	.12	.61		2.20		
Hawley|||	Upper Del.		.13								*	.22				*.54			.13		.38					.17				.30		1.87		
Holtwood|||	Lower Susq.		.19								.13							.23	.14				.22			.29			.45	.34	.11		2.10	
Huntingdon	Juniata		.08								.07					.09	.25		.02	.18	.26			.04		.14	.04		.24		.61		2.02	
Jersey Shore	W. Br. Susq.																																	
Kennett Square	Delaware																																	
Lancaster	Lower Susq.		.25								.14				1.22			.31		.28				.05		.22			.34		.67		3.48	
Lansford|||	Lehigh		.17	.05							.17	.16				.57	.15			*	.13					.26				.18		1.67		
Lawrenceville	N. Br. Susq.		.05								.10					.10	T.			.75	.10					.20				1.45		2.75		
Lebanon	Lower Susq.		.21	.02							.15				1.09	.05		.06	.12	.31		.20		.03	.21	.34	.05		.18	.23	.53		3.58	
Leolyn|||	W. Br. Susq.		.12								.31					.16										.10			.70			1.59		
Lewisburg	do.		T.	.03							.06				T.	.29				.33				T.		.10	.08	T.		.65		1.54		
Lloyd	do.																																	
Lock Haven	do.																																	
Lykens	Susquehanna		T.	.17							.03				T.	.28				.24	T.					.48		.21		.18		.49		2.08
Mauch Chunk	Lehigh		T.	.18							.17					.68				.12						.34			T.		.52		2.01	
Mifflintown	Juniata		.20	.01							.08					.30	.30		.28	.13				.17		.24	.15		.20	.53		2.09		
Montrose	N. Br. Susq.		.20								.40					.28	.45	.02		.80						.28	.22			.40		3.05		
Mount Pocono	Upper Del.										.40																							
Mount Union|||	Juniata																																	
Muncy Valley	W. Br. Susq.		.07	T.							.26	.04				.03	.28			.67							.08			.78			2.21	
Narberth	Lower Del.		.38								.27	.14				.75		.32	.02	.25	T.				.05	T.	.20	.02	.63	.16	.46		3.65	
Neshaminy|||	Lower Del.		.15								.40					.30	.09		.28	.08	.08					.06			.70	.20		2.34		
New Park	Lower Susq.		*																															

Daily Precipitation for April, 1925—Continued from page 18

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio Drainage.																																	
Beaver Dam|||	Ohio.....	.06	.22								.02	.07	.01		.20				.08					.04		.35					.63	1.68	
Beaver Falls|||	Beaver.....		.23	.05							.02	T.	.04		.02	.12			.01	T.	.12			.59		.14					.30	1.64	
Bradford.....	Allegheny.....	T.	.14		T.						*				1.04				1.60						.38	.02					.40	3.58	
Bradys Bend.....	do.....	.03	.20								.28				.03		T.		.19				1.16		.06	.08					.64	2.67	
Brookville.....	do.....	.15									T.				.20			T.					.10			.38					.60	1.43	
Clarion.....	do.....	.09	.13								.29				.07	.08	T.		.18				.60		.06		.03				.60	2.13	
Claysville.....	Ohio.....		.27								.44		.04		.20	.13		T.	.01	.32				.10				.24	.04	.29	2.08		
Cloe.....	Allegheny.....	.11	.18								.06				.15				.30					.11	.24	.13			.05	.65	1.98		
Clymer.....	Conemaugh.....		.24								.06	T.			.21	.19		T.		.37				.48		.27		.24		.56	2.62		
Colegrove|||	Allegheny.....										.06																						
Confluence|||	Youghiogheny.....	.22										.10	.05			.27			.08		.22					.10			.45	.30	1.79		
Coraopolis|||	Ohio.....		.29	.02							.02		.19			.38			.10		.23			.04		.23		.01	.10	.37	1.98		
Corry.....	Allegheny.....	.09	.11								.15	T.			.35	.08	.02		1.11				.16	T.	.20					.52	2.79		
Coudersport.....	do.....	.10									.36				.12				.96						.14								
Creekside.....	Allegheny.....	*	.49								*				.37				.21				.59		.39			.14		.74	2.93		
Derry.....	Conemaugh.....	.06	.45								.15	.02	.13		.24	.45	.05		.36				.14			.01		.32		.57	2.95		
Ebensburg.....	Conemaugh.....		*	.05							.46				.10	.35		.05	.19				.22		.07			.28		.61	2.33		
Elk Lick.....	Youghiogheny.....	.20	.10								.18							.45					.10				.60		.65	2.28			
Falls Creek.....	Allegheny.....	*	.20								.04				.21		T.		.24				.21		.08					.69	1.67		
Franklin|||	Allegheny.....		.06								.07	.22			.09	.32	.03			.04			.71		.26				.20	2.00			
Freeport|||	Allegheny.....		.30	.01							.02	.02	.02			.35				.32			.25		.61		.01	T.	.37	2.30			
Greensburg.....	Youghiogheny.....	.06	.23								.22	.02			.23	.19		.03	T.	.18		.09				T.	T.	.31		.52	2.08		
Greenville.....	Beaver.....	*	.16								.44	.03			.42			*	.23				.16		.40					.67	2.51		
Grove City.....	Beaver.....		.07								.17	.02	.02		.15	.03					.01		.19							.32	0.98		
Herrs Isl. Dam|||	Ohio.....		.25	.02							T.		.16		T.	.13			.03	.04	.30		.09	T.		.06		.06	.12	.32	1.58		
Indiana.....	Conemaugh.....	.04	.25								.02	.01			.33	.03		.03		.23			.80		.15		.25		.63	2.77			
Ingram.....	Ohio.....	.05	.15								.01	.03	.09		.07	.06		T.	T.	.25			.07		.11		.17	.02	.50	1.58			
Irwin.....	Youghiogheny.....	T.	.08								.15	T.	.09		.12	.13		.02	.06				.29		.01	.01		.32		.41	1.69		
Johnstown.....	Conemaugh.....	.04	.23								.10	.01	.02		.03	.42		.04		.35			.62		.02	.01		.34	.01	.84	3.08		
Ketner.....	Allegheny.....	.06	.07								.50	.03		.02	.15	.05				.14				.06	.07					.51	1.66		
Kregar|||	Youghiogheny.....		.40	.04							.02	.25	.12			.80			.03	.03	.22		.05			.06			.28	.28	2.58		
Linesville|||	Beaver.....																																
Lock No. 4 |||	Monongahela.....		.31	.05							T.	.21	.08			.44			T.		.32				.06		.15	.24	.29		2.15		
Lycippus.....	Conemaugh.....	.20	.53								.50	.05	.15		.12	.47			.27						.10		.17		.58		3.14		
Martin.....	Monongahela.....		.30	.10							T.	.21	.08			.47			.01		.23		.07	.01	T.		.02		.03	.32	2.07		
New Castle|||	Beaver.....	.15									.10	.02		.07	.13	.12						.45			.29					.48	1.81		
Newell.....	Monongahela.....	.11	.13								.08	.07			.40	.26				.34						.02		.33	.17	.10	2.01		
Parkers Landing|||	Allegheny.....		.10								.06				T.	.07		T.	T.	.20		1.33		.05	T.			.25		2.06			
Pennline|||	Beaver.....		.10								.20	T.			.10	.25			.06	.03			.89		.03			.28		1.94			
Pittsburgh***	Ohio.....		.04								T.	.13			.13			.03	T.	.17			.05		.06			.14	.21	.36	1.44		
Ridgway|||	Allegheny.....		.14								.28				.23								.03		.17	.04				.63	1.52		
Saltsburg|||	Conemaugh.....		.31									.05			.42				.04		.14			.08		.21		.32	.25	1.82			
Saegerstown.....	Allegheny.....	.10	.13								.22				.50	.02			.46				.55	T.		.02			.60	2.60			
Sharon|||	Beaver.....	*									.02	.02			.12								.38		.09				.31	0.94			
Somerset.....	Youghiogheny.....	.25	.30	.35	.25	.33		.29	.03		.25		.28		.33	.25	.10	.33	.70						T.			.65	.20	4.89			
Springdale|||	Allegheny.....		.24	.01							T.		.07		.28				.11	.05	.30		.06		.30		.10	.40	1.92				
Uniontown.....	Monongahela.....	.05	.48								.35		.18		.11	.54		.03		.22	T.	T.				.07		.36	.02	.31	2.72		
Unity Reservoir|||	Youghiogheny.....	.20	.38								.18		.23		.18	.32			.31				.09				.37		.48	2.74			
Vandergrift.....	Conemaugh.....	.07	.25								*				.12	.22	.05			.45			.27		.25			.10		.53	2.31		
Warren.....	Allegheny.....	.14									.18				.66				1.33				.02		.30				.52	3.15			
Washington.....	Ohio.....	.14	.03								.36	.11			.26	.04		.01	T.	.22		T.		.01		.06	.05	T.	.31	.36	2.09		
Waynesburg|||	Monongahela.....	.29	*								*	.26			.52			.40		*	.52				.12		.25	*	.44	2.80			
Westford|||	Beaver.....										*				.25						.22			.37					.35	1.19			
West Newton|||	Youghiogheny.....		.40	T.								.10	.03		T.	.44			T.		.23			.02			.02		.15	.20	.31	1.90	
Lake Drainage.																																	
Erie***	Lake Erie.....	.20	.08								.09	T.			.27	.05	T.		1.10				.65		.03					.41	2.88		
West Bingham.....	Genesee.....	.05	.20								.25	.04			T.	.14			1.23						.23	.35				.45	2.94		

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.

T.(trace) when precipitation is less than .01 inch.

§ Incomplete or missing.

|| Post Office address:—Greensburg

† Daily amounts inconsistent.

Daily Temperatures for April, 1925

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	47	50	60	62	54	57	65	58	63	57	60	64	66	61	76	58	60	69	50	51	57	67	86	76	65	81	78	52	58	44	61.7	
	Minimum	38	34	33	36	34	30	30	36	32	36	42	33	42	40	44	36	34	38	39	38	28	32	39	56	48	51	37	48	44	40	38.3	
Altoona.....	Maximum	42	47	60	65	59	55	70	68	61	58	64	67	66	63	66	55	55	67	80	70	52	70	81	89	84	77	73	62	57	50	64.4	
	Minimum	34	33	30	35	28	25	27	42	27	41	35	40	31	45	51	32	28	34	52	35	23	34	53	66	55	59	54	40	33	33	38.5	
Beaver Dam.....	Maximum	48	50	60	64	62	60	71	72	73	71	69	68	72	73	66	58	58	69	78	76	62	76	90	91	90	81	81	65	65	61	69.3	
	Minimum	29	35	30	32	29	30	27	33	32	49	34	37	34	54	50	32	33	35	52	39	33	46	58	54	55	58	53	47	41	37	40.3	
Bradford.....	Maximum	37	51	55	60	56	63	68	65	71	.....	.....	.....	.....	.....	.....	27	23	28	37	31	21	29	59	50	48	48	40	34	23	.....	66.7 ^a
	Minimum	28	31	26	26	27	14	19	25	18	.....	.....	.....	.....	.....	.....	27	23	28	37	31	21	29	59	50	48	48	40	34	23	.....	30.7 ^a
Bradys Bend.....	Maximum	42	52	58	60	62	61	68	68	69	68	64	65	70	70	64	54	54	70	70	70	60	75	85	89	89	77	64	64	57	58	65.9	
	Minimum	26	29	20	21	23	13	15	23	19	37	23	33	21	42	41	19	13	24	40	31	23	30	53	46	45	50	43	39	25	29	29.9	
Brookville.....	Maximum	45	49	59	64	55	61	70	64	70	50	64	65	71	69	58	62	61	72	62	62	62	64	89	95	76	85	81	81	70	58	51	64.8 ^b
	Minimum	33	26	23	25	22	11	19	26	21	22	28	38	25	47	26	23	20	25	35	26	25	30	49	46	48	38	30	27	29.1 ^b
Carlisle.....	Maximum	49	46	62	63	62	59	70	73	70	59	70	74	71	65	78	65	60	71	69	61	54	69	88	96	85	81	81	70	58	51	67.7	
	Minimum	40	36	35	24	34	26	26	40	29	44	40	47	41	43	51	34	32	35	53	42	27	33	50	61	51	57	56	47	38	37	40.4	
Catawissa.....	Maximum	50	55	64	68	56	64	69	67	66	58	71	69	69	58	76	62	61	72	62	62	62	64	89	95	76	85	81	63	67	44	66.8	
	Minimum	35	28	28	29	27	25	24	31	25	39	34	45	38	41	51	25	33	31	45	38	22	28	48	49	52	58	50	44	34	35	36.4	
Chambersburg.....	Maximum	47	47	64	66	60	58	66	73	65	58	69	75	71	67	78	62	59	69	77	63	59	69	91	94	87	80	78	74	58	50	67.8	
	Minimum	38	36	29	38	35	26	25	35	26	42	36	50	44	43	53	33	31	43	53	43	27	33	48	59	54	53	51	46	37	37	40.1	
Claysville.....	Maximum	49	47	61	64	64	62	74	73	76	73	69	69	81	50	62	61	60	71	77	74	64	77	89	93	92	84	79	69	61	49	70.1	
	Minimum	28	32	26	28	28	26	26	30	31	52	30	33	32	55	47	28	34	33	54	36	30	46	59	58	59	58	47	43	31	33	38.4	
Clearfield.....	Maximum	38	46	54	62	51	35	66	65	58	53	62	65	67	56	52	53	54	72	68	45	50	74	86	77	77	71	59	53	54	40	58.8	
	Minimum	35	34	27	29	26	20	22	26	24	32	34	28	29	45	40	28	23	30	45	37	22	30	52	53	51	58	48	43	28	35	34.5	
Coatesville.....	Maximum	48	44	61	64	54	56	64	66	62	64	67	67	64	66	78	60	61	68	65	59	55	65	82	78	70	80	76	64	53	49	63.7	
	Minimum	38	34	35	39	36	23	23	40	24	41	44	44	44	44	39	50	36	55	28	41	48	38	25	27	41	60	47	62	57	46	43	39.9
Corry.....	Maximum	35	33	51	52	51	53	55	55	65	65	61	61	63	63	53	45	52	55	55	47	56	72	75	84	79	77	69	60	69	67	59.6	
	Minimum	28	32	25	29	23	20	24	30	24	44	28	31	33	49	40	27	35	37	29	26	36	59	53	61	46	43	37	29	37	37	34.8	
Emporium.....	Maximum	44	50	57	62	49	58	69	61	66	64	64	66	65	61	59	52	58	67	74	55	59	75	78	89	88	78	67	57	62	52	63.5	
	Minimum	34	34	29	32	26	16	18	27	20	38	33	40	37	50	36	27	22	30	48	33	18	30	55	54	48	55	45	36	25	40	34.5	
Erie.....	Maximum	38	40	49	50	36	47	62	48	61	59	68	66	67	64	57	49	57	57	50	38	64	72	77	84	77	74	59	51	53	47	57.4	
	Minimum	32	35	32	35	27	28	40	39	37	42	37	37	35	55	40	39	39	38	43	34	31	45	57	57	63	58	45	41	39	40	40.4	
Franklin [§]	Maximum	43	53	59	62	54	63	70	64	72	56	67	66	70	68	55	53	61	70	75	57	64	77	88	89	83	79	62	64	65	44	65.1	
	Minimum	29	31	28	29	24	19	21	28	25	32	31	32	28	32	49	30	27	30	33	35	26	35	45	53	53	46	47	41	32	25	33.5	
Gettysburg.....	Maximum	52	48	62	70	63	59	68	72	64	59	75	77	68	68	82	68	62	71	71	63	55	70	93	96	81	85	84	77	60	50	69.1	
	Minimum	39	36	35	35	33	26	26	38	29	45	40	53	40	53	35	30	36	51	42	26	30	50	51	52	60	58	47	40	37	40	40.4	
Greensburg.....	Maximum	49	49	60	64	61	65	70	69	72	62	67	66	75	71	64	56	57	71	79	72	61	77	86	90	87	77	76	65	63	50	67.5	
	Minimum	32	33	29	32	28	26	31	36	35	52	34	36	35	51	31	34	36	55	37	40	57	66	66	63	62	56	42	38	35	35	42.1	
Grove City.....	Maximum	49	49	58	62	55	59	69	67	70	72	62	65	68	68	62	52	57	67	74	71	60	75	82	88	86	78	77	59	61	58	65.8	
	Minimum	28	34	28	28	25	24	27	33	32	42	42	30	36	29	51	48	30	30	55	34	27	41	48	55	50	47	42	35	33	33	36.9	
Hamburg.....	Maximum	46	47	55	63	58	59	64	63	61	62	61	65	63	74	65	60	60	66	66	50	58	62	85	82	78	79	78	60	57	49	63.2	
	Minimum	38	33	36	33	30	25	25	27	31	38	43	42	41	40	38	31	28	32	39	38	26	28	43	57	48	50	46	45	39	38	36.8	
Harrisburg.....	Maximum	48	46	60	64	52	56	66	66	62	57	67	69	66	60	76	59	58	67	64	63	53	66	84	86	67	79	77	57	57	48	63.3	
	Minimum	39	37	42	40	36	31	35	44	36	47	46	52	44	43	49	39	38	38	53	37	31	38	52	58	50	61	57	47	42	36	43.3	
Hawley.....	Maximum	41	53	56	61	57	60	66	64	67	61	68	62	61	60	71	54	59	65	65	47	60	70	80	80	74	81	73	69	61	58	63.5	
	Minimum	34	32	28	27	25	19	21	30	23	37	32	39	37	36	50	28	20	29	29	34	20	24	40	51	42	56	48	34	32	37	33.1	
Huntingdon.....	Maximum	47	48	62	66	59	59	73	70	63	58	68	71	69	67	73	57	59	70	77	73	55	72	90	93	84	81	77	66	60	54	67.4	
	Minimum	38	34	27	32	31	19	21	.....	23	40	35	44	37	47	50	26	24	32	56	39	23	29	51	58	56	58	49	44	32	38	37.7 ^a
Indiana.....	Maximum	41	50	61	66	58	62	70	69	71	65	65	65	73	72	64	57	58	72	78	70	58	76	88	90	86	77	75	60	60	51	67.0	
	Minimum	33	32	28	29	27	26	28	31	33	49	34	38	29	54	46	28	28	33	51	36	28	44	57	57	55	57	50	40	31	34	38.2	
Johnstown.....	Maximum	42	50	63	65	63	64	73	71	78	60	68	70	80	73	78	58	57	75	79	63	60	78	88	93	89	81	75	57	61	45	68.6	
	Minimum	34	35	31	33	33	26	28	36	31	44	44	40	38	49	46	33	31	37	55	38	29	39	59	63	56	65	57	46	35	37	40.9	
Lancaster.....	Maximum	51	48	63	68	70	60	68	70	69	61	70	76	72	68	80	77	70	68	70	69	58	65	84	87</								

UNP

JUL 9 1925

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

Vol. XXX. May, 1925. No. 5

GENERAL SUMMARY.

Excepting 1907, 1917 and 1924 this was the coldest May during the last 38 years of climatological records. However there was a short warm period, culminating on the 23d, when record high temperatures for May were reached at several stations. The heat was broken by the heaviest general rain of the month which turned to snow on the night of the 24-25th and broke all precedents. Snow fell to a depth of 6.0 inches at some places in Tioga County. Wellsboro reported 4.0 inches, and Lawrenceville 3.0 inches. In the western counties the snow extended south as far as Pittsburgh where there was a fall of 0.5 inch. Rains occurred on the usual number of dates during the month, but where mostly light or moderate, and the average was below the May normal. Frost on several dates did considerable damage to tender vegetables and to strawberries. Seeds were slow to germinate, and on heavy soils there was some replanting of corn which came up a poor stand. The conditions seemed to be favorable for the winter grains and for most grasses, which made a good growth. Other crops lost most of the early start obtained during the latter part of April. When the heat broke on the afternoon of the 23d there were destructive hailstorms in several of the western and some of the central counties. The worst storm seems to have been in Venango County. In Franklin and vicinity the losses were heavy. Greenhouses were riddled, hundreds of windows broken, and auto tops punctured by the largest hail ever seen in that locality. The damage in that vicinity was estimated at \$75,000. Lightning and wind did considerable damage in some sections during the storm, several barns being struck by lightning and burned. In Pittsburgh a boy was struck and badly injured by lightning. The month as a whole was unpleasant and was unfavorable for most growing crops.

TEMPERATURE.

The mean temperature for the State, as determined by reports from 84 stations was 55.2°, or 4.9° below the normal for May. The highest mean was 62.3°, at Germantown, Philadelphia, and the lowest, 47.2°, at West Bingham. The highest temperature for the month, 98°, occurred at three stations: Gettysburg, Lancaster, and Phoenixville, on the 23d. The lowest temperature reported during the month, was 22°, at Bradys Bend, on the 3d and 19th, at Saegerstown, on the 3d, and at West Bingham, on the 26th and 27th. The greatest daily range was 53°, at New Castle, on the 24th, and at Vandergrift, on the 8th.

PRECIPITATION.

The average precipitation, from rain and melted snow, as deduced from the records of 128 stations, was 3.49 inches, or 0.30 inch less than the May normal. The greatest monthly total was 7.98 inches, at Center Hall, and the least, 1.02 inches at Erie. The greatest amount in any 24 consecutive hours was 2.76 inches at Center Hall on the 11th. Snowfall for the State averaged 0.2 inch, a measurable amount falling at only fifteen stations. The greatest monthly snowfall was 6.0 inches at Leolyn, all of this amount reported as having fallen on the 25th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total move- ment, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	*Highest	Direction	Data
Erie.....	267.4	451.8	59	70	70	9,415	12.7	54	sw.	16
Harrisburg.....	317.6	446.2	71	67	57	4,925	6.6	27	sw.	23
Philadelphia.....	301.9	446.2	68	73	63	6,363	8.6	26	ne.	24
Pittsburgh.....	241.8	449.0	54	71	56	7,196	9.6	56	sw.	16
Reading.....	248.0	446.0	56	69	69	4,539	6.1	22	w.	23
Scranton.....	.....	.....	.....	86	78	5,562	7.5	39	nw.	23

* For any five-minute period.

COMPARATIVE DATA FOR MAY

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	57.3	91	24	4.24	8.41	2.26	.....	.....	.....
1889.....	60.4	96	25	5.91	12.41	2.51	.....	.....	.....
1890.....	58.5	89	23	6.71	12.41	2.96	7	11	13
1891.....	57.3	93	20	2.12	4.41	0.31	10	10	11
1892.....	58.5	91	28	5.70	9.30	3.77	7	10	14
1893.....	57.9	93	26	5.54	9.20	2.92	11	8	12
1894.....	60.8	92	27	8.88	15.02	2.72	9	8	14
1895.....	60.6	110	22	2.68	6.46	0.86	13	10	8
1896.....	65.4	98	31	2.85	6.30	1.19	10	12	9
1897.....	57.7	88	25	5.24	10.05	1.71	11	10	10
1898.....	60.0	94	22	5.11	10.15	2.79	8	9	14
1899.....	61.1	100	24	3.82	6.40	1.15	10	11	10
1900.....	60.4	96	20	2.79	7.63	0.72	13	9	9
1901.....	58.9	91	28	5.56	7.96	2.24	8	9	14
1902.....	59.8	95	25	1.96	4.45	0.29	13	11	7
1903.....	61.8	94	18	1.67	4.65	0.22	16	9	6
1904.....	61.6	94	21	3.78	7.50	2.07	12	10	9
1905.....	60.8	93	22	2.59	5.17	0.56	11	9	11
1906.....	60.0	99	23	3.23	5.59	0.93	12	10	9
1907.....	54.8	91	19	3.08	6.38	1.44	11	9	11
1908.....	61.2	96	22	6.28	10.95	3.19	10	10	11
1909.....	59.2	92	23	2.90	10.82	1.51	12	10	9
1910.....	56.8	88	24	3.38	6.08	1.73	11	10	10
1911.....	65.2	99	20	1.97	6.81	0.42	11	10	4
1912.....	61.2	91	28	3.15	5.99	0.99	14	8	9
1913.....	58.5	93	21	3.86	6.45	0.48	13	8	10
1914.....	61.5	96	19	3.34	5.32	0.30	16	9	6
1915.....	56.2	84	21	4.16	7.46	2.29	10	8	13
1916.....	61.0	93	26	3.19	6.09	1.49	12	11	8
1917.....	53.3	90	20	3.39	8.09	1.65	9	10	12
1918.....	65.1	95	21	5.04	8.37	1.81	13	12	6
1919.....	59.5	98	27	5.80	13.69	2.86	13	7	11
1920.....	56.6	92	18	2.02	3.65	0.67	14	8	6
1921.....	59.8	93	22	3.93	8.17	0.97	14	8	9
1922.....	62.5	96	20	3.21	7.14	1.69	15	8	8
1923.....	58.3	93	20	3.50	7.43	1.23	19	6	6
1924.....	54.6	92	18	5.71	9.64	3.31	9	9	13
1925.....	55.2	98	22	3.49	7.98	1.02	13	10	8

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.6	4.6	13	2.9	23	18
Phillipsburg.....	Delaware.....	3.2	4.6	13	2.2	11	22
Mauch Chunk.....	Lehigh.....	3.9	4.6	25	3.0	9	12
Wilkes-Barre.....	Susquehanna.....	5.8	7.8	7	4.4	24	20
Williamsport.....	Susquehanna.....	4.5	6.4	26	2.3	1	20
Harrisburg.....	Susquehanna.....	5.2	6.4	13	4.6	1	17
Freeport.....	Allegheny.....	6.0	10.9	12	4.2	1	22
West Newton.....	Youghiogheny.....	2.6	9.1	12	1.1	31	20
Lock No. 4.....	Monongahela.....	15.8	26.2	12	13.3	31	31
Pittsburgh.....	Ohio.....	10.0	17.3	12	8.1	31	22
Beaver Dam.....	Ohio.....	9.9	18.8	13	7.8	22	30

Climatological Data for May, 1925

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	13	57.4	.....	95	23	30	2	39	3.56	-0.06	1.18	0	11	15	14	2	w.	John A. Frick.
Altoona	Blair	1,615	38	54.4	-5.0	87	23†	31	6	49	3.61	-0.41	1.45	T.	12	16	9	6	w.	Lewis E. Biller.
Bethlehem	Northampton	295	41	58.6	-4.4	94	23	32	9	46	3.42	-0.30	1.26	0	6	1	27	3	sw.	Rev. R. H. Brennecke, Jr.
Biglerville	Adams	652	3	56.7 ^b	.....	96 ^b	23	31 ^b	6†	44 ^a	1.93	.....	0.83	0	7	18	3	10	.....	R. C. Walton.
Bustleton	Philadelphia	125	6	59.4	.....	96	23	35	1	38	1.96	.....	0.80	0	7	10	11	10	.....	Experiment Station.
Carlisle	Cumberland	467	58	58.2	-3.2	97	23	32	6	48	3.09	-0.74	1.50	0	10	20	5	6	sw.	Prof. C. E. Miller.
Catawissa	Columbia	520	28	56.4	-5.0	96	23	29†	8	48	4.95	+1.37	2.29	T.	10	16	5	10	.....	H. H. Yetter.
Center Hall	Center	1,272	29	53.9	-5.9	88	23	24	6	40	7.98	+3.98	2.76	1.0	13	18	4	9	.....	S. W. Smith.
Chambersburg	Franklin	580	25	57.1	-4.1	96	23	30	6	44	2.30	-1.35	0.94	0	10	15	7	9	sw.	William B. Spear.
Clearfield	Clearfield	1,120	15	50.5	-9.3	86	23	28	3	43	4.24	-0.54	1.82	2.0	14	9	12	10	nw.	E. W. Hess.
Coatesville	Chester	380	37	57.1	-4.6	94	23	30	8	39	2.42	-1.61	1.28	0	8	12	15	4	sw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	15	56.0	.....	93	23	31	6	37	2.82	-0.41	1.00	0	12	17	4	10	nw.	Wm. A. Rorer.
Emporium	Cameron	1,050	37	52.4	-6.3	86	23	29	19	48	4.73	+0.28	0.84	1.5	13	11	13	7	w.	T. B. Lloyd.
Ephrata	Lancaster	380	24	58.4	-2.5	95	23	33	6†	49	2.78	-0.75	1.27	0	9	13	12	6	w.	E. K. Hershey.
Freeland	Luzerne	1,970	10	53.0	.....	88	23	30	25	36	5.63	.....	1.12	0.5	15	9	11	11	nw.	Theo. Reichmann.
George School	Bucks	190	18	57.2 ^a	-3.8	95 ^a	23	30 ^a	31	47 ^b	2.77	-0.84	0.73	0	11	20	7	4	w.	Prof. N. W. Swayne
Gettysburg	Adams	600	51	58.5	-2.8	98	23	31	6	44	1.54	-2.43	0.62	0	8	13	15	3	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	21	53.6	-4.9	91	23	26	3†	45	4.91†	+1.15	1.98	0	10	10	9	12	n.	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875	1	51.0	.....	85	23	30	3†	40	4.92	+0.87	1.50	0	13	14	9	8	w.	Gustav Holtz.
Hamburg	Berks	535	32	54.0	-7.7	93	23	29	3	38	3.68	-0.82	1.31	0	6	11	15	5	w.	State Sanatorium.
Hanover	York	600	21	59.2	-4.7	95	23	35	9	41	2.00	-1.30	0.83	0	9	19	9	3	w.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	55	58.4	-3.4	94	23	38	25	33	2.17	-1.50	0.99	0	13	4	15	12	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	6	54.3	.....	88	23	29	8†	46	3.67	.....	0.70	0	9	10	17	4	w.	J. S. Pennell.
Holtwood	Lancaster	200	10	57.2	.....	95	23	39	8	34	1.49	.....	0.92	0	5	14	4	13	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	37	55.6	-5.1	92	23	28	3†	47	3.75	-0.57	1.54	0	11	19	3	9	w.	Prof. W. J. Swigart.
Jersey Shore	Lycoming	570	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Kennett Square	Chester	340	53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster	Lancaster	255	37	57.8	-3.2	98	23	31	6	43	2.32	-0.96	0.75	0	5	20	8	3	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	27	52.6	-4.9	84	31	28	12	48	3.21	-0.65	0.66	3.0	12	13	7	11	.....	C. P. Darling.
Lebanon	Lebanon	469	84	57.0	-4.0	96	23	33	3†	38	2.63	-1.40	1.01	0	11	14	13	4	sw.	S. B. Denzing.
Lewisburg	Union	450	50	56.6	-1.9	94	23	31	3	41	4.52	+0.59	1.31	0	14	15	6	10	w.	Prof. W. G. Owens.
Lock Haven	Clinton	580	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles Dunn.
Lykens	Dauphin	680	10	55.8	.....	94	23	28	3†	51	4.77	.....	1.75	0	12	13	15	3	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	34	55.7	-4.4	95	23	29	3†	48	3.82	-0.19	1.30	0	10	13	11	7	w.	R. K. Wintermute.
Midlinton	Junata	445	21	56.9	-3.8	94	23	31	8	48	3.75	+0.01	1.80	0	10	11	10	10	w.	Wellington Smith.
Montrose	Susquehanna	1,720	22	49.4	-5.6	79	23	26	7	35	2.43	-1.27	0.94	2.0	8	15	10	6	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	22	52.2	-2.5	88	23	30	26	46	4.80	+1.01	1.30	0	13	13	11	7	sw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	13	53.7	.....	93	23	27	3†	41	4.99	+0.62	1.50	T.	10	15	10	6	w.	A. H. Boatman.
Narberth	Montgomery	300	6	58.0	.....	95	23	34	1†	40	2.64	.....	0.84	0	9	13	10	8	sw.	Charles Decker.
Neshaminy Falls††	Bucks	60	36	56.6	.....	97	23	29	8	44	1.81	.....	0.97	0	6	21	7	3	w.	North Springfield Water Co.
Palmerton	Carbon	398	8	56.0	.....	94	23	29	3†	42	3.47	.....	1.30	0	7	9	19	3	sw.	F. G. Breyer.
Philadelphia (a)	Philadelphia	114	54	61.6	-1.3	96	23	42	1	36	2.36	-0.84	1.57	0	6	7	15	9	sw.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	9	60.8	.....	95	23	40	1	35	2.89	.....	1.18	0	6	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	.....	61.6	.....	97	23	42	1†	32	3.21	.....	1.40	0	6	9	11	11	sw.	Atlantic Refining Co.
Philadelphia-Gtn.	Philadelphia	113	.....	62.3	.....	96	23	41	1†	36	1.74	.....	0.86	0	7	9	14	8	.....	Julius Bernstein.
Phoenixville	Chester	100	14	57.6	.....	98	23†	31	3†	49	2.34	.....	0.67	0	8	21	7	3	s.	North Springfield Water Co.
Quakertown	Bucks	496	40	56.0	-3.6	94	23	29	8	45	2.54	-1.48	1.00	0	9	14	11	6	nw.	John E. Benner.
Reading	Berks	325	55	58.9	-3.6	95	23	40	3	33	2.99	-0.38	1.28	0	9	8	17	6	sw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	30	55.6	-3.8	88	23	36	25	34	3.20	-0.24	1.15	T.	10	7	13	11	sw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	35	55.8	-5.3	90	23	30	3	38	4.99	+0.91	2.00	0	9	14	9	8	w.	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	29	59.8	.....	95	23†	36	3	41	1.69	-1.77	0.84	0	8	11	16	4	nw.	W. S. Guiles.
State College	Center	1,217	43	54.4	-4.7	87	23	33	25	34	4.43	+0.46	1.08	T.	12	14	11	6	w.	C. A. Kern.
Towanda	Bradford	754	30	52.4	-5.6	82	31	32	8	44	2.64	-0.57	0.55	1.0	13	9	8	14	nw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	59	50.7	-6.1	87	23	27	26	49	2.92	-1.13	0.78	4.0	9	15	3	13	w.	George W. Hill.
West Chester	Chester	455	87	57.3	-3.4	94	23	35	1	39	1.98	-2.47	0.83	0	10	17	11	3	w.	Arthur M. Hay.
Williamsport	Lycoming	521	38	56.7	-4.0	96	23	30	3	38	4.15	+0.95	1.02	T.	11	15	9	7	nw.	George A. Beck.
York	York	400	37	57.0	-4.7	96	23	31	6	42	2.58	-0.80	1.41	0	10	17	11	3	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam††	Beaver	700	32	55.6	.....	91	23	31	25	48	3.20	+0.08	0.80	0	15	13	7	11	.....	U. S. Engineer.
Bradford	McKean	1,427	10	50.2	.....	84	23	25	19	51	3.04	.....	0.95	T.	13	11	9	11	w.	City Engineer.
Bradys Bend††	Armstrong	930	7	49.2	.....	82	31	22	3†	49	3.31	.....	0.90	0.5	13	12	8	11	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	34	50.0	-6.5	86	23	25	3†	52	3.80	+0.13	0.83	1.2	11	15	7	9	.....	John Fawcett.
Claysville	Washington	1,150	21	55.2	-6.1	91	23	28	8	47	3.98	+0.54	1.29	T.	13	16	2	13	s.	J. L. Melvin.
Corry	Erie	1,430	13	50.1	.....	83	23	29	8†	44	2.66	.....	0.58	T.	14	13				

Daily Precipitation for May, 1925

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh	.17	.03		.02	.06		T.			T.	.58	.51	T.				.19	T.					.41	1.18					.06	.35	3.56	
Altoona	Juniata	.28	.04		.26	.05	.05	.10			.14	1.31			.02			.53	T.					.75	.05					.07	.12	3.61	
Ansonia|||	W. Br. Susq.	.44	.08	T.	.11	.32	.02	.04	.03			.56	.04					.76	T.					.24	.61					.07		3.44	
Baker's Summit.	Juniata	.18			.25	.05	.08	.19				1.58						.60				.04		1.04	.05					.11		4.17	
Bethlehem	Lehigh	.05										1.26						.15						.95	.35					.66		3.42	
Biglerville	Susquehanna	.04			.12						.12	.68												.83	.07					.07		1.93	
Bloersville	Lower Susq.	.12			.10	T.	T.				.30	1.38						.28						1.08	.10					.12		3.48	
Bustleton	Lower Del.	T.				.03					.03	.38												.80	.53					.16	.03	1.96	
Carlisle	Lower Susq.	.02			.02	.22	T.	.03			.14	1.36						.22					1.54	.77	.08					.23		3.09	
Catawissa	N. Br. Susq.	.16	T.		.01	T.	.01				.62	1.15			T.		.52							.75	.01					.18		4.95	
Center Hall	Susquehanna	.37	T.		.78	.24	.04	.24		.20	.85	2.76			.01			.36						1.62	.25	.24				.27		7.98	
Chambersburg	Potomac	.04			.16	.03	.04				.11	.66						.05						.94	.09					.18		2.90	
Clearfield	W. Br. Susq.	.40	.03	T.	.31	.23	.20	.03			.30	.73			.02			.33						.12	1.32	.13				.09		4.24	
Coatesville	Lower Del.				.02		.07				.14	.63												1.26	.02					.18	.10	2.42	
Colebrook	Lower Susq.	.05	.01	T.	.04	.10	T.	.02			.48	.63	T.					.15						T.	1.00	.09				.09	.16	2.82	
Conshohocken	Schuylkill	T.				T.	T.				.02	.64						T.						.02	1.09					.33		2.00	
Cresson|||	Juniata	* .20			.03	.22	.09	.08				.90						.22		.52	T.				.80	.42							4.48
Doylestown	Lower Del.	.02	.01		T.	T.	.01				.07	.87						T.	.02						.83	.18				.10		2.11	
Driftwood	W. Br. Susq.	.28	.01	T.	.04	.19	.08	.06			.13	.67						.69						.31	1.29	.28				*	.15	4.18	
Emporium	do.	.42	T.		.81	.10	.09	T.		.10	.45	.43					.25	.18						.40	.84	.18				.48		4.73	
Ephrata	Lower Susq.	.10		.02	.05	T.	T.				.11	.74						.12						1.27						.20	.17	2.78	
Forest City	N. Br. Susq.	.17	.12			.10		.03		T.	.14							.89						.73	.33					.08	T.	3.86	
Freeland|||	Lehigh	.56	.12	T.	.08	.03	T.	.04		T.		1.02	.82				.12	.60						1.12	.76	*		.02		.14	.20	5.63	
George School	Lower Del.	.02	T.			T.	.01			T.	.02	.69	.04				.01	.02						.73	.57					.57	.10	2.77	
Gettysburg	Potomac	.02		.03	.03	.08	T.				.09	.58												.62						.09		1.64	
Gladville|||	Susquehanna	.14	T.	.06	.05	T.	.01				.54	1.24			.01	T.	.30	T.					.75	1.39	.14				.03	.08		4.74	
Gordon	Lower Susq.	.19	T.		.04	.04		T.			T.	1.98			.17	.03		.22						1.62	.48					.14		4.91	
Gouldsboro||	Lehigh	.10		.06	.05	.06	.05				.04	1.45					.35	T.	.78				1.10	.40	.20					.28		4.92	
Graterford	Schuylkill				T.	T.					.04	.68						.01						1.42	.09					.19		2.43	
Hamburg	Schuylkill	.23									.07	1.31												1.25	.29					.53		3.68	
Hanover	Lower Susq.	.01			.02	.06					.10	.62		*										.83	.32						.04	2.00	
Harrisburg***	do.	.03		.01	.02	.01	T.	.01			.47	.39			.01			.19						.02	.96	.04				T.	.01	2.17	
Harrisburg East.	do.	.05			.01	.05	T.				.20	.69					.07	.18						.97	.07					T.	.03	2.32	
Harrisburg North.	do.	.06				.07		.02			.10	1.05					.25	.27						.22	.66						.05	2.75	
Hawley|||	Upper Del.			.06		.01						.70	.53				.32	.30						.70	.69						.36	3.67	
Holtwood||	Lower Susq.								.16		.12	.14												.92						T.	.15	1.49	
Huntingdon	Juniata	.03			.11		.02	.02			.03	1.51			.13			.62				T			1.05	.08				.15		3.75	
Jersey Shore	W. Br. Susq.																																
Kennett Square	Delaware																																
Lancaster	Lower Susq.				.04						.67													.75	.70					.16		2.32	
Lansford|||	Lehigh	.25	.09			T.					.89		.80			.15		*	.17					*	2.35					.12	\$		
Lawrenceville	N. Br. Susq.	.10	.05		.20	.35	T.	.08			.05	.32					.66						.10	.28	.52					.50		3.21	
Lebanon	Lower Susq.	.09	T.	.01	.01	.08	.03		.06		.43	.49					.12							.15	1.01	T.				.16		2.63	
Leoklyn|||	W. Br. Susq.		.10	.60	*	.60					*		1.00				1.00							.45	1.10					.21		5.06	
Lewisburg	do.	.15	.07	.01	.01	.02	.02	.04			.06	1.31					.58							.68	1.00	.25				.32		4.52	
Lloyd	do.																																
Lock Haven	do.																																
Lykens	Susquehanna	.17	.02		T.	.03	T.	.03		T.	T.	1.75	.03			.19		.41							1.47	.55				.07	.05	4.77	
Mauch Chunk	Lehigh	.20					.05				.02	1.17			.18			.25						.38	1.30	.14				.13		3.82	
Mifflintown	Juniata	.04	.10		.04						.02	1.80						.47							1.16	.07				.04	.01	3.75	
Montrose	N. Br. Susq.	.05									.17	.77						.30						.18	.47	.23				.26		2.43	
Mount Pocono	Upper Del.	.10		.03	.30		.02				.06	.70			1.00	.12		.30						1.30	.55					.30		4.80	
Mount Union|||	Juniata																																
Muncy Valley	W. Br. Susq.	.37	T.		.18		T.	.30			.19	1.50					1.20							.11	.79	.24				.11		4.99	
Narberth	Lower Del.	.09			T.	T.	.03				.06	.51	.04					T.						.77	.26					.84	.04	2.64	
Neshaminy|||	do.	.20	.20			T.		.02			.05	.45						.12						.12	.97							1.81	
New Park	Lower Susq.	.20			.03		.05				.10	.30												1.39	.06					.08		2.01	
Newport|||	Juniata																																
Palmerton	Lehigh	.11									.36	.66					.22	.08						.74	1.30	T.				T.		3.47	
Philadelphia (a.)	Lower Del.	T.			T.	T.	T.				.05	.45					.01							.09	1.48					.28		2.36	
Philadelphia (d)|||	do.	.27	T.			T.					T	.03	.46					T.							.20	1.18				T.	.75	2.89	
Phila-Point Breeze	do.				T.	T.	T.				.02	.77		T.			T.	.02						.11	1.40					.89		3.21	
Philadelphia-Gtn.	do.	.06			T.	T.	T.				.03	.36	.03												.86					.39	.01	1.74	
Phoenixville	Schuylkill	.10									.10	.67	.10												.61	.63				.02	.11	2.34	
Pine Grove|||	Lower Susq.	.44	.04			.01	.02					.88	.39				.02	.24						*	1.20					.14		3.38	
Pleasant Mount	Upper Del.	.34		.05		.09					1.42						.26							T		1.25				*	.10	3.51	
Pottstown	Schuylkill	.09				.02	T.				.08	.96												.88	.25					.17	.39	2.84	
Pottsville	do.	.11									.10	1.70			.06	.13		.16							1.74	.33				.05		4.38	
Quakertown	Lower Del.	.02				.12																											

Continued on page 24

Daily Precipitation for May, 1925—Continued from page 23

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio.....	.28	.01	..	.17	.16	.07	.08	.02		.04	.80						.63	.02			*	.03		.45	.44							3.20	
Beaver Falls|||	Beaver.....	.32	.04		.18	.32	.03	.12		T.	.10	.76						.58	T.				.22		.62	.49					.02		3.80	
Bradford.....	Allegheny.....	.30	.11		.14	.08	.08	.12	T.		.31	.64					.14	.43	T.			T.		.03	.18	T.	T.			.48		3.04		
Bradys Bend.....	do.....	.22		.01	.90	.24	.01			.06	.40	.42					.02	.15			T.			.12	.71	.05						3.31		
Brookville.....	do.....	.19		.08	.65	.15	.10	T.			.80	.08						.38						.83	.52	.02						3.80		
Clarion.....	do.....																																	
Claysville.....	Ohio.....	.26		T.	.04		.04	.09			.13	1.29			.02		.33	.49				.30	.21	T.	.65	.13						3.98		
Cloe.....	Allegheny.....	.49			.32	.24	.16				.50	.38					.36	T.				.09		.68	.74	.09						4.05		
Clymer.....	Conemaugh.....	.50	.03		.08	.30	T.	.10		T.	.24	1.08			.03			.37							.89	.18			T.			3.80		
Colegrove|||	Allegheny.....																																	
Confluence|||	Youghiogheny.....	.22	.39		.03	.25		.12			.12	1.79	.31					.17					.15	.50	.62							4.67		
Coraopolis|||	Ohio.....	.38	.12		.03	.12	.06	.13		T.	.76							.45					.23	.78	.43				T.			3.49		
Corry.....	Allegheny.....	.53	.30		.21	.01	.15	.03		.01	.26	.26			T.		.02	.58				T.		.02	.03	T.			T.	.25		2.66		
Coudersport.....	do.....																																	
Creekside.....	Allegheny.....	.15		T.		.43	.13			.01	*	1.26						.49						*	.76							3.23		
Derry.....	Conemaugh.....	.24	T.	.01	.15	.15	.20				.10	1.30					T.	.51					.24	.94	.08							3.92		
Ebensburg.....	Conemaugh.....	.33	.11		.19	.15	.05	.12			.10	1.12			.06			.63							.98	.09						3.93		
Elk Lick.....	Youghiogheny.....	.63			.29		.20				.80	.96						.32				.25		.77								4.22		
Falls Creek.....	Allegheny.....	.32			*	.41	.30	.01			.20	.63						.70						.55	1.25	.17						4.54		
Franklin|||	Allegheny.....	.69	.03		.13	.34	.05	.04	.03			.77						.62						.73	.51	.07				.06		4.07		
Freeport|||	Allegheny.....	.21	.12	.01		.18	.12	.08		.09	.05	.61						.43						.51	.52							2.93		
Greensburg.....	Youghiogheny.....	.26	.02	T.	.17	.10	.07	.10	T.		.06	1.35					.15	.53				.36	.14	T.	.58	.12						4.01		
Greenville.....	Beaver.....			*	.12	.20	.03	.01			.63							.64					.03	*	.50							2.16		
Grove City.....	Beaver.....	.23			.28	.16	.05	.04			.42	.48						.17	.13			.10		.30	1.89	.06			T.	.02		4.33		
Herrs Isl. Dam|||	Ohio.....	.35	.09		.01	.44	.06	.10		T.	T.	1.02	.02			T.		.57	T.				.28	.59	.38				T.			3.91		
Indiana.....	Conemaugh.....	1.00	.30	.40	.28	.10		.10			.18	1.12					.30							1.45	.13							5.36		
Ingram.....	Ohio.....	.17		.01	.67	.05	.03	.06			.19	.75					.24	.28				.09		1.07	.10							3.71		
Irwin.....	Youghiogheny.....	.05	.03	T.	.14	.01	.04	.05			.10	1.22			.30		T.	.20	T.			.38	.10	.50	.08							3.20		
Johnstown.....	Conemaugh.....	.36		T.	.13	.10	.09	.09			.46	1.13			.12		.16	.50	.01			T.		.74	.05				T.			3.94		
Ketner.....	Allegheny.....	.31	.05		.31	.45	.03	.05			.34	.62					.16	.30						.07	.75	.04				.20		3.68		
Kregar|||	Youghiogheny.....	.38	.32		.06	.13	.17	.21			.06	1.49	.59					.57	.08				1.18	.68	.69							6.61		
Linesville|||	Beaver.....																																	
Lock No. 4|||	Monongahela.....	.30	.15		.04	.06	.04	.11			.01	1.40	T.					.66					.33	.37	.42							3.89		
Lycippus.....	Conemaugh.....	.17	.10		.07	.22	.07	.08		T.	.13	1.49						.58				.60		1.09	.09							4.69		
Martin.....	Monongahela.....	.23	.19		.04	.20	.06	.11			.22	1.60	.08					.17					.16	.06	.80							3.92		
New Castle|||	Beaver.....				.39	.28	.01	.05	.02		.04	.52						.17						.21	.32							2.01		
Newell.....	Monongahela.....	.20		.09		.01	.11				*	1.72					.20	.24				.20		.59	.43							3.79		
Parkers Landing|||	Allegheny.....	.35	.15		.28	.12	T.	T.	T.	T.	.97	T.						.35	T.				T.	.85	.30					.03		3.40		
Pennline|||	Beaver.....	.57			.06	*	.27	.10				.43						.59	.02					.24	.16						.13	2.57		
Pittsburgh***	Ohio.....	.20		.02	.44	.07	.07			T.	.34	.62			T.		.44	.01				.34		.23	.62	.02			T.			3.42		
Ridgway†	Allegheny.....	.28			.66	.19					.13	.49	.48					.56						.54	.84	.06						4.23		
Saltsburg|||	Conemaugh.....	.40	.06		.04	.51	.07	.19				1.28						.70					.07	.47	.82							4.61		
Saegertown.....	Allegheny.....	.18		.15	.15	.12	.05				.28							.53						.30	.21				*	.18		2.15		
Sharon|||	Beaver.....	.44		*	.20	.23	.02	.03			.46							.32						.86	.36							2.92		
Somerset.....	Youghiogheny.....	.40	.08		.15	.10	.15		.12		.60	1.10	1.50	.98			.50				.40		.90	.40	.85	.05		.25		.05		7.58		
Springdale|||	Allegheny.....	.38	.09		.13	.37	.10	.10			.01	1.15	.01					.26					T.	.60	.45							3.65		
Uniontown.....	Monongahela.....	.45	.05	T.	.22	.02	.05	.13			.23	2.00					T.					T.	.04	.78	.09				T.			4.05		
Unity Reservoir||	Youghiogheny.....	.35			.24	.10	.09	.12			.09	1.40					.12	.50					.37	.24	.80	.10						4.52		
Vandergrift.....	Conemaugh.....	.15			.32	.08		.10				.11													.13	.14						1.03		
Warren.....	Allegheny.....	.33	.06	.06	.08	.05	.12	.04			.30	.34					.25	.29					.03	.17	.21	.02			.08	.30		2.78		
Washington.....	Ohio.....																																	
Waynesburg|||	Monongahela.....		.51		.11	.13	.20		.06		*	1.30						.43					.20	.50								3.44		
Westford|||	Beaver.....	.34				.47						.52						1.00	T.					.30	.40	T.				.10		3.13		
West Newton|||	Youghiogheny.....	.35	.19		.02	T.	.09	.11				1.45					T.		.74					.28	.53	.24						4.00		
Lake Drainage.																																		
Erie***	Lake Erie.....	.22	.09	.11	.03	T.	.01	T.			.06				T.		.15	.03				T.	T.	T.	.03					.02	.27		1.02	
West Bingham.....	Genesee.....	.16	.04	T.	.45	.18	.09	.06			.15	.41						.12	.44						.25	.10				.46		2.91		

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurement.

T.(trace) when precipitation is less than .01 inch.

§ Incomplete or missing.

|| Post Office address:—Greensburg,

† Daily amounts inconsistent.

Daily Temperatures for May, 1925

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	57	58	66	68	60	59	59	63	72	67	66	68	73	74	77	76	76	68	74	80	82	76	95	57	54	65	70	73	68	78	82	69.7
	Minimum	39	30	35	44	45	39	43	36	37	44	54	45	42	45	52	44	50	49	42	45	48	49	56	52	41	42	41	46	52	54	45.0	
Altoona.....	Maximum	49	51	61	67	49	50	52	59	69	66	63	65	72	70	72	84	82	66	71	78	78	80	87	87	50	58	65	72	76	75	82	67.9
	Minimum	36	38	34	43	37	31	33	34	36	47	55	34	38	42	39	42	49	39	34	45	47	40	60	38	32	35	35	45	48	48	50	40.8
Beaver Dam.....	Maximum	54	57	62	60	58	56	55	63	69	69	64	69	72	72	71	83	68	61	73	77	80	81	91	88	52	60	67	75	88	76	84	69.5
	Minimum	40	37	34	47	37	35	34	34	45	48	47	33	39	47	40	40	50	36	35	43	45	45	63	40	31	41	36	43	51	47	48	41.6
Bradford.....	Maximum	45	41	60	58	47	50	46	57	70	68	61	73	78	70	70	81	66	65	70	80	73	79	84	78	48	49	69	75	74	73	82	65.8
	Minimum	33	33	39	42	30	29	30	28	32	39	37	26	28	47	29	30	40	38	25	34	37	32	61	31	29	26	28	36	46	42	43	34.7
Bradys Bend.....	Maximum	50	51	57	57	52	51	51	58	69	69	62	71	75	71	72	64	68	70	73	73	78	79	79	48	62	62	72	78	82	65.8		
	Minimum	32	32	22	41	28	28	26	23	31	38	44	24	26	44	29	29	42	30	22	31	33	31	52	33	24	32	25	35	45	45	36	32.7
Brookville.....	Maximum	50	48	61	64	47	54	50	60	70	63	64	70	76	70	73	81	81	63	72	76	75	79	86	60	49	58	67	73	76	76	82	66.9
	Minimum	36	26	25	31	31	33	30	27	34	42	33	28	30	36	30	29	31	29	25	33	34	32	59	32	31	30	29	39	41	37	40	33.0
Carlisle.....	Maximum	57	61	69	65	59	60	60	67	77	70	64	66	72	76	73	81	78	68	76	83	82	81	97	91	54	64	71	75	71	81	84	72.0
	Minimum	37	38	34	44	39	32	40	36	37	50	53	45	40	43	49	46	61	46	41	44	55	51	57	43	38	38	38	46	51	57	52	44.5
Catawissa.....	Maximum	54	47	69	74	56	61	67	74	70	71	69	79	79	75	81	76	73	74	84	82	79	96	51	55	66	71	78	67	81	95	71.6	
	Minimum	34	35	30	47	47	35	38	29	32	48	48	35	36	40	43	38	49	45	40	36	50	42	51	42	35	34	34	39	54	57	56	41.3
Chambersburg.....	Maximum	55	59	67	65	57	58	60	65	72	70	63	67	73	73	73	79	78	69	76	80	84	79	96	90	56	63	68	75	74	79	83	71.2
	Minimum	37	36	33	46	37	30	41	32	35	45	57	45	38	40	46	46	61	45	37	39	49	50	55	46	38	37	34	43	51	54	49	43.0
Claysville.....	Maximum	51	58	61	65	62	55	56	66	71	68	63	72	79	76	74	84	70	64	74	78	80	83	91	86	50	58	68	73	80	79	86	70.2
	Minimum	36	33	37	48	35	34	32	28	44	48	47	31	35	46	39	41	51	40	30	39	39	44	70	39	29	39	31	42	51	44	45	40.2
Clearfield.....	Maximum	41	48	51	50	48	42	47	57	73	61	59	63	71	63	73	81	68	55	73	72	72	69	86	58	43	58	62	67	65	71	80	62.2
	Minimum	38	33	28	43	34	30	37	31	35	45	56	36	42	49	40	42	40	38	30	38	39	38	53	37	32	32	31	43	47	39	46	35.8
Coatesville.....	Maximum	58	60	65	70	59	59	59	64	71	68	70	67	72	74	70	77	77	66	73	78	81	76	94	78	53	64	70	73	74	77	82	70.3
	Minimum	33	34	36	46	44	32	32	30	32	50	57	47	37	41	53	46	63	48	39	43	46	51	59	44	41	36	36	45	52	55	53	43.9
Corry.....	Maximum	45	45	69	58	46	45	57	58	63	66	59	66	74	63	67	73	68	59	69	75	70	76	83	55	50	59	63	69	71	71	80	63.2
	Minimum	35	32	30	37	34	39	33	29	35	42	42	40	30	47	31	35	38	34	29	39	46	35	55	33	29	33	31	41	48	40	46	37.0
Emporium.....	Maximum	52	46	63	64	48	54	49	58	69	69	66	71	76	68	68	81	61	63	71	77	75	77	86	68	50	59	66	76	70	75	82	66.4
	Minimum	39	36	30	45	34	32	35	30	39	45	50	30	34	46	32	33	46	40	29	35	38	38	57	35	33	30	32	42	49	46	48	38.3
Erie.....	Maximum	45	49	60	51	48	49	52	58	61	66	62	59	66	57	60	65	55	66	72	67	77	79	40	48	55	62	64	67	71	82	61.1	
	Minimum	38	37	41	41	42	38	38	38	45	55	42	39	44	44	43	49	40	37	41	56	52	44	40	35	40	43	42	49	53	51	60	43.8
Franklinss.....	Maximum	49	51	61	59	48	59	52	60	72	62	59	70	77	69	74	82	59	64	73	77	74	79	89	46	51	61	66	74	75	76	84	66.2
	Minimum	33	36	29	39	35	35	31	35	40	46	31	34	40	32	36	45	34	29	38	42	38	46	38	30	34	33	37	44	45	44	46	36.9
Gettysburg.....	Maximum	60	65	69	67	62	63	65	69	76	70	66	69	74	78	76	82	79	71	80	81	87	78	98	82	57	67	72	75	77	82	87	73.7
	Minimum	37	40	35	43	40	31	43	37	47	47	43	38	40	47	46	62	45	38	37	52	50	58	44	39	36	38	42	49	52	52	43.3	
Greensburg.....	Maximum	50	56	62	63	52	53	53	61	70	66	64	69	76	72	72	82	66	65	72	77	79	80	88	86	51	59	65	76	75	81	68.6	
	Minimum	38	35	38	48	38	36	35	36	43	49	53	35	40	46	42	44	49	40	33	43	48	45	68	39	32	40	35	46	54	46	48	42.6
Grove City.....	Maximum	50	54	61	59	46	45	50	64	70	80	61	65	71	70	69	75	64	58	70	77	75	78	88	70	51	58	60	69	76	75	80	65.8
	Minimum	38	42	32	43	36	35	34	33	34	47	45	32	36	51	37	40	44	35	30	40	35	28	56	35	30	39	32	32	32	54	38.4	
Hamburg.....	Maximum	55	55	54	64	60	60	58	59	65	59	60	71	73	72	74	75	73	65	73	78	76	78	93	82	54	63	68	71	68	78	80	68.2
	Minimum	34	35	29	30	31	31	30	33	45	54	36	39	40	40	37	55	47	36	40	43	44	56	45	39	34	34	39	43	56	53	39.9	
Harrisburg.....	Maximum	56	58	64	64	57	57	64	71	65	64	67	72	75	72	78	74	66	74	78	82	76	94	71	54	63	69	73	70	79	82	69.2	
	Minimum	40	43	40	47	42	39	44	41	43	52	56	48	43	45	51	50	53	49	44	50	56	55	61	40	38	42	44	51	54	57	55	47.5
Hawley.....	Maximum	53	54	63	71	63	56	56	58	67	71	64	69	76	75	69	76	71	66	72	82	78	77	88	80	54	64	68	73	68	75	81	69.0
	Minimum	37	36	30	45	40	35	32	29	29	40	55	32	32	41	48	33	58	40	32	36	44	38	59	41	35	31	38	49	51	52	39.6	
Huntingdon.....	Maximum	54	55	65	68	52	56	57	63	72	64	65	72	77	75	73	83	77	70	76	82	81	83	92	87	53	62	70	75	72	75	86	70.7
	Minimum	40	39	28	45	38	28	35	28	32	45	56	35	34	40	43	40	58	43	33	39	43	45	58	40	35	35	38	42	51	48	45	40.5
Indiana.....	Maximum	52	50	61	66	47	52	54	60	68	64	65	71	77	75	71	81	77	66	72	77	78	79	89	86	54	62	66	75	82	77	81	68.9
	Minimum	37	37	30	35	34	30	32	31	35	46	54	34	38	47	38	44	45	39	29	40	41	39	65	40	32	38	42	46	50	43	44	39.9
Johnstown.....	Maximum	51	55	64	70	50	55	53	63	69	68	65	74	78	73	78	85	62	72	68	83	84	88	93	80	52	61	70	78	80	87	70.6	
	Minimum	39	40	35	46	40	33	37	35	38	47																						

UNP

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

Vol. XXX.

JUNE, 1925.

No. 6

GENERAL SUMMARY.

For the State as a whole this was the warmest June during the last 38 years, although June 1892 was a close second. In the extreme southeastern part of the State it was the warmest June during the last century by a considerable margin, the temperature averaging about 7° above the normal, and about 2° above the July normal. A maximum temperature of 104° occurred at Williamsport on the 5th and broke all June records for the State. The rainfall was light in all parts of the State during the first three weeks, and the drought became quite severe. During the remainder of the month there were good rains except in a few central and southeastern counties where the drought continued with decidedly harmful effects. Unfortunately the drought was most severe in the chief agricultural counties of the State including Lancaster, Chester, Delaware, Montgomery, Philadelphia, and Bucks counties in the southeast, and Center, Mifflin, Juniata, Snyder, and Union counties in the central portion of the State. In these counties the rainfall for the month was less than two inches, and the growth of the crop seriously checked. Pastures dried out to an alarming extent, truck crops grew slowly and were of inferior quality, and the water supply became low in many places. Elsewhere there was considerable improvement in crop conditions during the last ten days of the month, but this relief probably did not affect more than one-half of the total crops of the State. The drought came late enough in the season to let the winter grains through with but little damage as they were mostly headed out before it became severe. However the high temperatures and deficiency in moisture served to ripen the grain earlier than usual and wheat harvest was well advanced at the close of the month. About the usual amount of damage by lightning was reported, but seemingly less than the usual amount of hail. A severe hail-storm occurred in Erie County on the 15th.

TEMPERATURE.

The mean temperature for the State, as determined by reports from 82 stations was 71.9°, or 4.1° above the the June normal. The highest mean was 78.8°, at Germantown, Philadelphia, and the lowest, 63.5°, at West Bingham. The highest temperature for the month, 104°, occurred at Phoenixville, on the 7th, and at Williamsport on the 5th. The lowest temperature reported during the month was 29° at West Bingham on the 24th. The greatest daily range was 50° at West Bingham on the 17th.

PRECIPITATION.

The average rainfall as deduced from the records of 131 stations, was 3.04 inches, or 1.19 inches less than the June normal. The greatest monthly total was 7.02 inches at Mount Pocono, and the least, 0.62 inch at Bustleton and Shawmont. The greatest amount in any 24 consecutive hours was 3.12 inches at Harrisburg, "East" on the 27th and 28th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total move- ment, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	*Highest	Direction	Date
Erie.....	300.8	455.1	66	72	69	9,686	13.5	42	w.	15
Harrisburg.....	366.6	448.9	82	66	54	4,807	6.7	35	sw.	28
Philadelphia.....	339.7	448.9	76	72	60	6,173	8.6	27	nw.	16
Pittsburgh.....	293.4	452.0	66	69	56	6,960	9.7	35	nw.	6
Reading.....	305.8	448.9	68	69	66	4,419	6.1	25	se.	25
Scranton.....				86	78	4,856	6.7	37	sw.	

* For any five-minute period.

COMPARATIVE DATA FOR JUNE

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1883.....	68.4	100	30	3.04	6.90	1.08			
1889.....	66.7	95	33	5.43	10.04	2.71			
1890.....	70.1	97	33	3.42	5.74	1.30	12	11	7
1891.....	68.2	100	30	4.50	9.30	1.22	14	8	8
1892.....	71.8	99	40	5.64	10.55	1.83	9	11	10
1893.....	69.8	100	38	3.12	6.50	1.20	10	11	9
1894.....	69.6	102	30	2.57	5.31	0.61	13	12	5
1895.....	71.4	104	32	3.50	9.21	0.69	13	10	7
1896.....	67.4	98	32	4.64	9.11	1.89	10	11	9
1897.....	64.8	96	28	3.38	6.42	1.11	11	11	8
1898.....	69.6	100	33	2.79	6.96	0.56	14	11	5
1899.....	69.9	101	32	3.51	5.97	0.65	13	11	6
1900.....	69.9	97	35	3.60	10.29	1.35	11	12	7
1901.....	69.1	103	32	3.47	7.61	0.88	12	11	7
1902.....	66.0	97	32	5.97	8.93	3.35	11	12	7
1903.....	63.5	90	34	6.53	11.76	3.74	7	10	13
1904.....	67.9	96	32	4.06	6.67	1.62	12	10	8
1905.....	68.0	99	30	4.39	8.35	1.77	11	10	9
1906.....	69.3	97	28	5.43	10.29	1.40	11	12	7
1907.....	63.6	98	30	4.99	8.55	2.79	11	9	10
1908.....	68.8	102	28	2.36	4.61	0.58	19	9	2
1909.....	68.8	96	34	4.48	8.96	1.89	12	9	9
1910.....	65.4	95	32	4.31	8.68	1.33	12	8	10
1911.....	68.3	99	38	4.71	10.11	2.13	12	10	8
1912.....	65.6	96	29	3.36	8.58	0.79	13	9	8
1913.....	68.2	99	20	2.26	7.61	0.66	19	7	4
1914.....	68.6	101	25	3.71	7.05	1.17	16	8	6
1915.....	69.6	89	48	3.30	8.04	0.74	8	14	8
1916.....	63.7	89	28	6.14	12.45	2.83	11	10	9
1917.....	66.8	92	32	5.38	9.85	2.25	12	11	7
1918.....	66.0	98	29	3.42	2.65	0.44	15	11	6
1919.....	71.2	102	32	3.90	9.17	1.74	16	9	5
1920.....	67.0	99	32	4.97	8.37	2.25	12	11	7
1921.....	70.6	101	26	3.12	9.86	0.70	17	9	4
1922.....	69.5	96	30	5.11	12.46	1.78	11	11	8
1923.....	70.9	103	32	2.73	7.99	0.41	16	9	5
1924.....	65.8	98	26	5.57	9.75	2.23	11	11	8
1925.....	71.9	104	29	3.04	7.02	0.62	16	11	3

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	2.4	3.3	3	1.7	24	18
Phillipsburg.....	Delaware.....	1.5	2.8	1	0.8	25	22
Mauch Chunk.....	Lehigh.....	3.7	4.2	29	3.3	7	12
Wilkes-Barre.....	Susquehanna.....	3.3	4.8	3	2.6	27	20
Williamsport.....	Susquehanna.....	1.6	4.6	1	0.6	23	20
Harrisburg.....	Susquehanna.....	3.8	4.7	1	3.4	22	17
Freeport.....	Allegheny.....	2.3	3.3	3	1.6	20	22
West Newton.....	Youghiogheny.....	0.5	1.6	26	0.3	12	20
Lock No. 4.....	Monongahela.....	13.5	15.4	27	12.7	4	31
Pittsburgh.....	Ohio.....	7.5	8.4	27	7.2	8	22
Beaver Dam.....	Ohio.....	7.2	8.2	27	6.2	26	30

Climatological Data for June, 1925

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	13	74.8	.....	100	6	48	12	34	2.50	-0.94	0.62	0	8	15	14	1	sw.	John A. Frick.
Altoona	Blair	1,615	38	69.6	+3.4	94	5†	44	11†	33	3.28	-0.64	1.98	0	10	19	10	1	w.	Lewis E. Biller.
Bethlehem	Northampton	295	41	74.8	+5.0	98	4†	50	12	33	2.32	-1.85	1.07	0	7	2	26	2	sw.	Rev. R. H. Brennecke, Jr.
Biglerville	Adams	652	3	74.3*	.....	100	5	47*	12	38*	2.14	.....	0.70	0	6	16	12	2	.....	R. C. Walton.
Bustleton	Philadelphia	125	6	76.6	.....	101	6	48	12	36	0.62	.....	0.41	0	6	18	10	2	w.	Experiment Station.
Carlisle	Cumberland	467	58	76.0	+5.1	102	5	47	12	38	3.71	-0.13	2.44	0	4	23	4	3	nw.	Prof. C. E. Miller.
Catawissa	Columbia	520	28	72.7	+5.0	102	5	43	12	43	1.82	-2.07	0.56	0	8	25	4	1	.....	H. H. Yetter.
Center Hall	Center	1,272	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. W. Smith.
Chambersburg	Franklin	580	25	73.5	+4.1	99	4†	45	12	41	2.04	-1.97	0.94	0	8	17	11	2	sw.	William B. Spear.
Clearfield	Clearfield	1,120	15	67.1	-0.2	98	5	42	12	39	2.88	-2.18	1.58	0	6	17	10	3	sw.	E. W. Hess.
Coatesville	Chester	380	37	74.2	+4.3	97	5†	43	12	37	1.78	-2.26	0.63	0	8	13	14	3	sw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	15	72.4	.....	97	6	47	12	38	3.84	-0.25	1.00	0	13	21	4	5	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	37	67.6	+1.4	95	5	40	12†	42	3.32	-1.21	1.75	0	8	13	15	2	w.	T. B. Lloyd.
Ephrata	Lancaster	380	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. K. Hershey.
Freeland	Luzerne	1,970	10	70.0	.....	96	5	40	11	34	2.97	.....	0.79	0	12	10	17	3	nw.	Theo. Reichmann.
George School	Bucks	190	18	74.3	+6.6	100	5†	43	12	40	0.97	-2.26	0.33	0	9	23	5	2	w.	Prof. N. W. Swayne.
Gettysburg	Adams	600	51	75.4	+5.8	102	5†	46	12	42	2.10	-1.80	0.69	0	9	10	17	3	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	21	69.3	+4.1	95	5	40	12†	40	3.93	-0.47	1.20	0	10	18	9	3	w.	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875	1	66.4	.....	88	3†	39	12†	34	3.94	-0.79	1.20	0	11	21	6	3	w.	Gustav Holtz.
Hamburg	Berks	535	32	70.8	+1.3	98	7	43	12	42	4.38	+0.16	1.32	0	8	23	6	1	w.	State Sanatorium.
Hanover	York	600	21	76.0	+5.4	100	4†	50	11	34	2.50	-1.23	0.82	0	9	19	11	0	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	55	75.2	+4.9	99	6	52	12	30	5.01	+1.46	2.92	0	9	8	15	7	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	6	69.4	.....	96	5†	38	12†	43	3.30	.....	0.62	0	14	21	8	1	w.	J. S. Pennell.
Holtwood	Lancaster	200	10	75.0	.....	97	3†	54	12†	32	1.41	.....	0.51	0	9	16	6	8	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	37	71.8	+3.6	99	6	42	12	43	1.90	-2.58	0.91	0	13	20	7	3	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John S. Madore.
Jersey Shore	Lycoming	570	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Kennett Square	Chester	340	53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster	Lancaster	255	37	74.7	+4.6	102	5	45	12	43	1.78	-2.21	0.72	0	5	23	3	4	s.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	27	70.0	+4.8	99	5	38	24	41	3.65	-0.24	0.95	0	9	16	12	2	.....	C. P. Darling.
Lebanon	Lebanon	469	84	74.3	+5.0	101	6	49	12	37	3.54	-0.52	1.15	0	11	19	8	3	sw.	S. B. Benzing.
Lewisburg	Union	450	50	73.4	+6.2	101	6	44	12	39	1.66	-2.50	0.62	0	9	13	13	4	w.	Prof. W. G. Owens.
Lock Haven	Clinton	580	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles Dunn.
Lykens	Dauphin	680	10	72.5	.....	100	5†	41	12†	41	4.02	.....	1.52	0	8	21	9	0	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	34	71.8	+4.0	99	5	41	12	41	4.35	+0.05	1.31	0	8	23	5	2	w.	R. K. Wintermute.
Millintown	Juniata	445	21	73.4	+5.6	100	6	44	12	44	1.60	-2.76	0.88	0	10	19	8	3	w.	Wellington Smith.
Montrose	Susquehanna	1,720	22	68.8	+6.1	93	5	40	27	39	3.21	-0.61	1.00	0	8	17	12	1	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	22	64.8	+3.2	89	4†	38	17	34	7.02	+2.23	2.16	0	12	12	13	5	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	13	67.5	.....	96	5	40	24	39	3.52	-1.58	1.26	0	7	16	13	1	w.	A. H. Boatman.
Narberth	Montgomery	300	6	75.1	.....	99	6	51	12	34	1.18	.....	0.58	0	10	15	10	5	sw.	Charles Decker.
Neshaminy Falls†	Bucks	60	36	74.2	.....	100	5†	44	12	40	0.90	.....	0.30	0	8	22	4	4	s.	North Springfield Water Co.
Palmerton	Carbon	398	8	72.8	.....	102	5	42	12	38	2.58	.....	1.05	0	9	14	15	1	sw.	F. G. Breyer.
Philadelphia (a)	Philadelphia	114	54	78.1	+6.7	100	5	56	11	28	1.16	-2.14	0.51	0	8	12	13	5	sw.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	9	77.4	.....	100	5	55	12	32	1.75	.....	0.80	0	6	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	.....	77.9	.....	100	5†	57	11	30	0.85	.....	0.32	0	9	13	12	5	sw.	Atlantic Refining Co.
Philadelphia-Gtn.	Philadelphia	113	.....	78.8	.....	101	5†	55	11	32	1.01	.....	0.50	0	6	13	13	4	.....	Julius Bernstein.
Phoenixville	Chester	100	14	76.6	.....	104	7†	45	12	39	0.94	.....	0.41	0	7	24	6	0	s.	North Springfield Water Co.
Quakertown	Bucks	496	40	73.2	+5.0	99	6	41	12†	44	2.55	-1.11	0.83	0	9	15	13	2	nw.	John E. Benner.
Reading	Berks	325	55	75.7	+5.9	101	6	53	12	31	2.60	-1.07	0.86	0	12	17	9	4	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	30	71.1	+3.3	97	5	46	24	34	3.57	0.00	0.93	0	15	5	20	5	sw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	35	71.6*	+2.6	99*	6	43*	12	43*	2.17	-2.08	0.69	0	10	.....	.....	.....	.....	Prof. Thomas C. Houtz.
Shawmont	Philadelphia	51	29	77.4	.....	98	5†	52	12	37	0.62	-2.85	0.44	0	4	22	4	4	nw.	W. S. Guiles.
State College	Center	1,217	40	70.2	+3.7	95	5	44	11†	36	1.57	-2.80	0.49	0	8	14	15	1	sw.	C. A. Kern.
Towanda	Bradford	754	30	68.8	+3.5	95	5	39	24	41	4.30	+0.71	1.64	0	11	16	12	2	sw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	69	66.0	+1.5	95	5	35	24	42	2.16	-1.89	0.78	0	6	19	9	2	sw.	George W. Hill.
West Chester	Chester	455	87	74.5	+5.1	96	6	51	11	32	2.39	-1.80	1.34	0	7	15	12	3	w.	Arthur M. Hay.
Williamsport	Lycoming	521	38	73.7	+5.2	104	5	45	24	36	2.19	-1.71	1.06	0	6	19	9	2	nw.	George A. Beck.
York	York	400	37	73.2	+3.3	99	5	43	12	45	1.99	-1.49	0.81	0	8	21	9	0	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam†	Beaver	700	32	72.6	.....	98	5	41	11	40	3.54	-1.11	1.00	0	11	12	10	8	sw.	U. S. Engineer.
Bradford	McKean	1,427	10	70.4*	.....	96*	5	49*	29	42*	4.70	.....	1.35	0	12	15	12	3	sw.	City Engineer.
Bradys Bend†	Armstrong	930	7	65.1	.....	95	5	31	11†	48	4.64	.....	1.44	0	10	13	11	6	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	34	65.8	+2.3	95	5	39	12†	47	2.85	-1.40	1.10	0	6	19	10	1	.....	John Fawcett.
Claysville	Washington	1,150	21	72.8	+4.6	100	4	41	11	40	5.30	+1.15	1.92	0	8	21	6	3	s.	J. L. Melvin.
Corry	Erie	1,430	13	68.0	.....	93	6	38	11	39	3.27	.....	1.57	0	11	15	9	6	.....	Nevin

Daily Precipitation for June, 1925

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh									T	.07					.01	.47						.12		.63	T		.03	.55	.62		2.50	
Altoona	Juniata			T					.03	T					.04	.50			.03			.04	.05	.85	1.13	.15		T	.46			3.28	
Ansonia|||	W. Br. Susq.									.04	T					T	.16			T			.46	.98	T		.28	.48	.52			2.92	
Baker's Summit	Juniata								.88	.02						.45			.12			.18	.02	.06	.64	.92	.16		.24	.44			3.69
Bethlehem	Lehigh									.19						.40							.05	.39				.04	1.07	.18			2.32
Biglerville	Susquehanna				.36																		T	*	.70			.38	.35	.35			2.14
Bloersville	Lower Susq.	.12													T		T					T	T		1.45	1		.10	.15			1.82	
Bustleton	Lower Del.									.01					T	.10			T		.01		.05		.41			.04				0.62	
Carlisle	Lower Susq.			T					T		T				T							T		T	1.07	.01	T	2.44	.19	T		3.71	
Catawissa	N. Br. Susq.									.10						.56							.04		.03	.35		.35	.16	.23			1.81
Center Hall	Susquehanna																																
Chambersburg	Potomac				.09				.02								.07					.05		.03	.05	.79			.94				2.04
Clearfield	W. Br. Susq.									T									.35	T	T		.05	.35	.15	1.43			.55			2.88	
Coatesville	Lower Del.					.12			.07	.06					.27	.47							.05	.05	.63				.11			1.78	
Colebrook	Lower Susq.					.65			.02	.45					.10	.09	.01					.01	.08	.02	1.00		.84	.03	.54			3.84	
Conshohocken	Schuylkill								.05						T	.16							.09		.30		.02	.03	T	.29		0.94	
Cresson|||	Juniata									T						.05	.92		.04			.09	*	.13	1.10	.06			.05	.52		2.96	
Doylestown	Lower Del.									T					.18	.09		T		.13			T		.92			.08	.65	.53		2.58	
Driftwood	W. Br. Susq.			.04					.54					.04		.06	.46						.32		1.10	T	T	.61	*	.21		3.38	
Emporium	do		T					T	.25						.16	T	.06	T					T	.10	.54	1.21	T	.23		.77		3.32	
Ephrata	Lower Susq.															.18			.07				.21	.39		1.02		.07		.55		3.24	
Forest City	N. Br. Susq.		.31						.07	.85					.02	.18						.21	.39		1.02		.07		.55			3.24	
Freeland|||	Lehigh									.24					.08	.04	.70		.03			.01	.01	.03	.79		.42	.40	.22			2.97	
George School	Lower Del.								T	.10						.02					.22		.08		.33		.09	.01	.02	.10		0.97	
Gettysburg	Potomac								.11						T		.84	.19	T	T		.24		.01	.69		.41	.02	.30	.28		2.10	
Girardville|||	Susquehanna								.07	.42	.24				T	T	.84	.19	T	T		T		.11	.25	.53	.53	.26	.24			3.68	
Gordon	Lower Susq.								.01	.48	.12					.38							.35		.90		.41	1.20	.04			3.93	
Gouldsboro||	Lehigh								.10						.15	.56	.15				.26		.18	.12	.38		.22	.20				3.94	
Graterford	Schuylkill								.03						.07	.18						T	.07	.39		T	.28	.41				1.43	
Hamburg	Schuylkill								.16							.50					.43		.09		1.32		.66	.40	.82			4.38	
Hanover	Lower Susq.							.20							.45	.05						.08			.75		.01	.82	.02	.12		2.50	
Harrisburg**	do							T	.78						T	T	.03					.02	.02	.36	.68		1.93	1.17	.02			5.01	
Harrisburg East	do								.48						T	T	.04						.07		.98		3.12	.03	.03			4.75	
Harrisburg North	do								.53						.04		.10						.04		1.42		2.01	.41	.04			4.59	
Hawley|||	Upper Del.	.38	.06						.48	.34					.32		.04				.09	*	.12		.62	.10		.10	.34	.31		3.30	
Holtwood||	Lower Susq.								.51				.10	.09	.04	T				.05		.03		.27		.02		.30				1.41	
Huntingdon	Juniata		.06	.10				.10	.04	.10					T	T	.15		.05				.03	.02	.03	.88			.02	.32		1.90	
Hyndman	Potomac		T	.08			T	.04	.66	.45					.02		.61					.06	.05	.10	.70		.01			.03		2.81	
Jersey Shore	W. Br. Susq.																																
Kennett Square	Delaware																																
Lancaster	Lower Susq.														.31									.04	.54			.72		.17		1.78	
Lausford|||	Lehigh									1.01					*	.09	.55						T		1.41	T	*	2.45	.87			6.38	
Lawrenceville	N. Br. Susq.		.25												T	.15	.95					.19	.05		.84		.10	.22	.90			3.65	
Lebanon	Lower Susq.		.05					.10	.17	T					.01	.53						.12	T	.69	.01	.71	1.02	.13				3.54	
Leoklyn|||	W. Br. Susq.			.65						*	.23					.05							*	.10	*	1.20		1.56	.05			3.84	
Lewisburg	do		.03	T											T	.16	.28				T		.01	.06	T	.62		.02	.18	.30		1.66	
Lloyd	do																																
Lock Haven	do																																
Lykens	Susquehanna								.25						.26		.23							.26		.65		1.52	.82	.03		4.02	
Mauch Chunk	Lehigh								.98						.06	T	.38				.29	.01			1.31		.43	.89				4.35	
Midlinton	Juniata			.07					.08						.01		.11					.01	.07	.07	.88		.18	.12				1.60	
Montrose	N. Br. Susq.		.04	.10					.40						T	.30					T			.28	1.00		.43	.66				3.21	
Mount Pocono	Upper Del.		.60						2.16						.17		.76		.06		.17	.06	.02	.04		.92		.90	1.16			7.02	
Mount Union|||	Juniata		.10						.25						.10	T									.88		.32		.60	.20		2.45	
Muncy Valley	W. Br. Susq.		.57	T						.19					.43		.24					T	T	T	.30	T	1.26		.19	.64		3.52	
Narberth	Lower Del.								.02	.01					.09	.01	.10		T		T	T	.30		.58		T	.02	.01	.04		1.18	
Neshaminy|||	Lower Del.								.14																								

Daily Precipitation for June, 1925—Continued from page 28

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio						.06	T.	T.								.92	.07				.09			.07	*	1.00	.16	*	.25	.92		3.54	
Beaver Falls|||	Beaver			.07													.52		.08					.12		.76	.01		.03	.57	.08		2.24	
Bradford	Allegheny		.31					.02	.39	.09							.70	.45					T.	.32	T.	1.35	.01	.20	.36	.50		4.70		
Bradys Bend	do		.57														.77		.03				T.	.13	.06	.31	1.44		.02	.03	1.28		4.64	
Brookville	do														T.	.21							T.	.22		.99	.25	.08			1.10		2.85	
Clarion	do																																	
Claysville	Ohio														.07		.70	1.50						T.	.20	.30	.43		.18	1.92		5.30		
Cloe	Allegheny							.28	T.						1.20	T.			.04				.25	.05	.53	.55		.22		.76		3.88		
Clymer	Conemaugh							.12	.14						.38		.56		.08				.14		.16	.21	1.24		T.	.92		3.95		
Colegrove|||	Allegheny																																	
Confluence|||	Youghiogheny							.08	.07								.72	.18	.10				.06		.10		1.25	.10		.15	.26		3.07	
Coraopolis|||	Ohio							.33	T.	.01					.14		.17		.08				T.		.07		2.38	.90		.01	1.00	.16		5.25
Corry	Allegheny		.20						T.						.02	.23	.39	.01	T.			.01		.10		.15	1.42	T.	.47		.27		3.27	
Coudersport	do														.25	.01			*	.02				.16		.04	.45			1.00			1.91	
Creekside	Allegheny								.51						.42		.64	*	.02				.06	*	.16	*	1.37				.60		3.78	
Derry	Conemaugh							T.							.10		.95	.05	.20				T.	.04	.10	.52	.76	.16			.84		3.72	
Ebensburg	Conemaugh								T.						.20		1.29		.04				.06	T.	.10	.51	.84	.21		.02	.48		3.75	
Elk Lick	Youghiogheny							.25							.10		1.18	.04	.16				.08	.04	.22	1.27	.58			.25			4.17	
Falls Creek	Allegheny		.05					.12							.05	.13	.30						.04	.49	.06	1.62	.06	.05		.99			3.96	
Franklin|||	Allegheny		.15							.02					.05		.24							.53		1.21		.47	.46	.55	.38		4.06	
Freeport|||	Allegheny									T.					.16		1.05							.07		1.85	.06			1.28	.09		4.58	
Greensburg	Youghiogheny						T.	T.	T.	T.					.05		.33	.02	.32				.02	.02	.11	.61	.64	.02		.02	.66		2.82	
Greenville	Beaver		.03													.77							.37		1.45		.35	.21		.43		3.61		
Grove City	Beaver														T.	T.	.29	.02					.02	.20	.10	.77	.52		.51	1.30		3.91		
Herrs Isl. Dam|||	Ohio							.02	T.	.12	T.				.19		.04		.03				T.		.05		.47	.12		T.	.50	.70		2.24
Indiana	Conemaugh								.15						.35		.48	T.	.06				.09	.02	.04	.45	.78	.03		.04	.78		3.27	
Ingram	Ohio					.56	.01		.12						.21		.07	.03	.04					.05	.03	.37	.28	.04	.02	.01	1.20		3.04	
Irwin	Youghiogheny														.09		.30	.04	.23					T.	.09	.42	.40	.04	T.	.57	.02		2.20	
Johnstown	Conemaugh						T.	T.		T.					.22		.51		.16				.05	.09	.01	.74	1.51	.02		.01	.47		3.79	
Ketner	Allegheny		.03					.08			.05				.09	.11	.03						.05	.23	.05	1.20		.36	.11	1.31			3.70	
Kregar|||	Youghiogheny						T.	.03								.04	.71		.03				.02		.24	.05	.88	.01		.01	.38		2.40	
Linesville|||	Beaver					.06										.07							.05		.32		.92		.47	.06		.17	2.12	
Lock No. 4|||	Monongahela						.18	.09							.06		.55		.04				.03		.05		.71	T.		.52	.48		2.71	
Lycippus	Conemaugh							.07							.29		.58	.03					.08	.15	.12	.62	.40	.06		.45	.44		3.24	
Martin	Monongahela						T.		T.	.06					.03	.12	.02		.70	T.					.25	.08	.68	.12		.02	.32	.17	2.52	
New Castle|||	Beaver															1.23		.04						.01	.20		1.34	.06		.98	.84		4.20	
Newell	Monongahela					1.04	.02								.05		.93	.06						.08	.04	.68	.02		.01	.28	.39		3.60	
Parkers Landing|||	Allegheny		.12												T.		.65							.16		1.55		.10	.40	1.08	.55		4.61	
Pennline|||	Beaver		.02												.17		.10		.02				.02		.38		1.05		.24	.06	.02	.07	2.15	
Pittsburgh***	Ohio					.06	T.		.11						.15	T.	.08	.02	.01				T.	.05		.38	.13		.01	T.	1.11		2.11	
Ridgway†	Allegheny							.11	.75							.28								.46		.36	.63	.12	.51		1.46		4.68	
Saltsburg|||	Conemaugh									T.	T.				.04	.01		.76	.02						.12	1.22	.17			.18	1.35		3.87	
Saegerstown	Allegheny		.02												.03			.02					1.07	.05	.15	1.25		.47	.50	.08			3.64	
Sharon|||	Beaver							.17								.40							T.	.24		1.00	T.	.34		.30	.58		3.03	
Somerset	Youghiogheny								.30							.83			.75		.15					.65		.15	.80	.25	.40		4.28	
Springdale|||	Allegheny							.02							.57	.01	.31		.05					.06		1.14	.30			.66	.23		3.35	
Uniontown	Monongahela						T.		T.						.08	T.	.36	.16	.01			.01	T.	.32	.48	.16	.10		.15	.42		2.25		
Unity Reservoir††	Youghiogheny							.05								.24			.15					.04	.13	.45	.55	.03	.09	.71			2.44	
Vandergrift	Conemaugh														.36	.37	.02									.52	1.00	.10		.75			3.12	
Warren	Allegheny							.55								.38								.15		.50	.72	.14	.30	.16	.36		3.26	
Washington	Ohio						T.								.14	.03	.68	.26					T.	.04	.07	.75	T.		.21	1.55		3.73		
Waynesburg|||	Monongahela						T.	.04		T.					.14	.20			.40					.04	.20	.10	1.02			.35	*	.21	2.66	
Westford|||	Beaver								T.							.06									1.17		1.14		.54		.17		3.08	
West Newton|||	Youghiogheny						.24	.03		T.					.07	.03	.12		.03					.15		.92	.04			.42	.24		2.29	
Zelienople	Ohio																																	
Lake Drainage.																																		
Erie***	Lake Erie		T.						T.		T.				.08	.04	T.	.05	T.	T.	.11	.01	T.	.02		.43	.18	.02	.04	.01	T.		0.99	
West Bingham	Genesee		.04							.02							.12	.02						T.	.24		.92	.03	.35	.09	.79		2.63	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurement.

T.(trace) when precipitation is less than .01 inch.

§ Incomplete or missing.

†† Post Office address:—Greensburg.

† Daily amounts inconsistent.

Daily Temperatures for June, 1925

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	91	96	98	98	100	98	84	86	90	76	81	85	88	95	82	81	93	82	87	85	86	81	83	83	82	90	83	84	76	.....	87.4	
	Minimum	64	62	68	72	73	70	69	68	63	64	53	48	53	66	68	49	60	62	59	59	55	65	52	61	62	62	67	64	63	.....	62.1	
Altoona.....	Maximum	88	90	91	92	94	94	85	86	83	68	74	77	78	85	91	81	76	85	75	82	81	81	81	78	75	76	82	72	71	.....	81.8	
	Minimum	63	61	62	62	65	64	66	67	64	59	44	41	53	59	62	64	47	63	58	55	53	52	58	48	58	54	56	57	56	49	.....	57.4
Beaver Dam.....	Maximum	90	92	96	95	98	96	82	90	86	76	73	89	89	88	93	92	84	87	83	86	85	81	80	80	78	83	82	82	75	.....	86.4	
	Minimum	53	58	63	62	63	64	61	63	66	61	41	49	00	69	63	67	53	72	00	55	58	55	61	58	47	56	62	59	58	51	.....	58.9
Bradford.....	Maximum	89	91	92	91	96	95	90	90	85	76	73	84	88	89	89	80	82	81	78	79	.....	78	76	79	69	72	78	78	77	.....	82.5	
	Minimum	53	53	55	56	58	53	57	61	53	54	55	64	68	72	56	55	56	65	61	63	.....	62	60	61	58	57	62	62	49	51	.....	58.8
Bradys Bend.....	Maximum	82	91	90	93	95	94	86	79	85	85	73	84	88	88	88	81	81	79	82	81	70	79	79	71	72	72	72	73	73	.....	81.8	
	Minimum	44	49	54	51	55	55	54	59	56	48	31	36	42	40	40	60	42	65	50	42	48	42	54	40	57	45	60	50	46	38	.....	48.4
Brookville.....	Maximum	89	91	92	94	95	94	84	89	86	72	75	81	86	84	90	76	86	85	74	83	80	81	78	77	72	74	82	80	71	68	.....	82.3
	Minimum	47	51	54	54	57	58	58	61	52	46	41	39	47	59	55	47	39	59	46	45	47	41	48	42	45	52	54	50	47	41	.....	49.4
Carlisle.....	Maximum	94	97	98	100	102	100	98	90	91	85	83	83	90	98	95	85	94	91	92	88	93	84	81	84	84	81	85	80	79	.....	90.2	
	Minimum	56	59	64	68	68	69	70	72	69	63	52	47	53	69	65	52	66	66	60	63	58	60	63	58	60	52	57	59	58	64	.....	61.7
Catawissa.....	Maximum	95	96	98	99	102	101	98	88	85	87	80	82	84	86	97	84	83	92	87	90	88	90	86	84	85	87	91	87	75	79	.....	88.9
	Minimum	56	57	62	63	65	63	62	66	65	64	49	43	55	60	63	64	45	49	56	53	52	49	54	44	57	54	56	56	59	53	.....	56.5
Chambersburg.....	Maximum	92	93	95	99	99	98	93	90	90	89	84	81	83	89	95	93	83	83	92	88	90	89	89	86	82	85	82	88	86	82	.....	88.8
	Minimum	51	56	61	64	62	64	64	68	66	59	49	45	49	63	61	68	49	63	63	53	56	52	55	55	57	59	55	62	59	58	.....	58.2
Claysville.....	Maximum	92	94	96	100	97	95	79	91	88	84	74	90	91	89	92	90	87	84	88	88	84	82	78	77	79	85	82	75	75	.....	86.5	
	Minimum	55	64	63	60	62	64	62	59	67	60	41	51	59	67	64	64	52	70	57	58	57	53	61	53	66	52	61	64	60	50	.....	59.2
Clearfield.....	Maximum	87	85	91	94	98	95	90	83	78	70	75	80	85	71	75	73	78	85	83	79	80	84	85	78	75	78	84	68	67	.....	80.9	
	Minimum	53	53	58	55	60	67	65	65	58	48	45	42	46	61	47	60	47	46	55	49	50	46	62	45	57	52	53	53	54	46	.....	53.3
Coatesville.....	Maximum	90	94	95	96	97	97	96	87	85	90	75	80	83	88	91	82	82	92	80	86	85	88	81	82	83	82	88	81	85	78	.....	86.6
	Minimum	61	57	66	70	72	74	73	68	56	65	52	48	48	69	64	68	51	67	63	58	56	54	66	53	62	62	59	69	67	63	.....	61.9
Corry.....	Maximum	87	90	90	92	93	90	90	82	78	68	82	85	86	86	78	78	79	71	76	77	77	73	78	68	70	75	76	69	69	.....	80.1	
	Minimum	62	63	68	67	62	60	68	63	65	55	38	45	58	59	63	39	68	49	55	54	45	53	42	58	50	57	55	50	43	.....	55.8	
Emporium.....	Maximum	89	90	91	92	95	93	90	86	85	73	72	78	82	84	86	76	80	84	75	82	79	82	75	77	73	74	79	81	71	67	.....	81.4
	Minimum	50	55	60	57	62	57	60	65	62	52	45	40	40	65	55	56	47	64	50	52	50	45	58	40	58	53	58	52	45	.....	53.7	
Erie.....	Maximum	87	88	93	91	94	95	80	88	83	75	67	86	88	82	89	72	84	77	70	75	77	78	67	79	69	69	73	73	72	.....	79.5	
	Minimum	72	74	76	78	73	71	70	68	47	47	58	64	61	66	59	53	61	59	61	62	56	59	54	59	54	61	58	57	56	.....	62.4	
Franklin.....	Maximum	90	92	93	96	97	98	84	93	88	68	77	88	89	91	92	79	84	83	76	82	83	81	81	76	70	76	80	80	74	71	.....	83.7
	Minimum	56	57	60	61	62	63	61	63	63	60	38	45	54	66	59	45	56	52	52	51	48	56	38	52	53	56	55	51	47	.....	54.8	
Gettysburg.....	Maximum	95	100	99	100	102	102	98	93	91	94	79	84	83	91	98	88	83	96	85	95	89	93	88	83	88	86	90	86	80	80	.....	90.6
	Minimum	57	58	64	64	66	67	68	70	65	63	44	47	46	51	68	64	68	50	68	58	59	57	65	53	57	59	56	58	60	59	.....	60.3
Greensburg.....	Maximum	88	91	92	94	95	94	77	89	86	83	74	86	90	87	92	86	83	86	78	85	83	83	81	78	77	77	84	80	76	72	.....	84.2
	Minimum	57	63	67	64	65	65	63	62	66	64	44	57	58	67	63	66	52	68	61	54	56	54	60	55	64	56	61	61	61	54	.....	60.3
Grove City.....	Maximum	89	90	92	92	95	96	82	92	92	82	73	84	84	90	88	81	79	81	75	80	79	78	73	73	69	70	78	77	74	70	.....	81.9
	Minimum	56	60	63	63	63	65	62	65	65	42	39	53	58	68	61	66	47	70	56	55	56	50	60	54	61	52	65	55	55	48	.....	57.8
Hamburg.....	Maximum	91	92	92	96	96	97	98	91	83	88	82	80	82	86	87	84	80	86	85	82	84	84	83	82	82	80	78	76	74	.....	85.4	
	Minimum	49	56	63	63	65	69	66	66	65	61	44	43	47	54	67	67	47	60	60	57	48	50	50	44	48	55	58	60	45	.....	56.2	
Harrisburg.....	Maximum	92	94	95	94	99	99	96	83	86	88	78	78	80	86	94	84	79	91	79	89	84	87	80	78	83	82	87	84	78	76	.....	86.2
	Minimum	62	65	69	71	72	72	76	74	64	63	53	52	56	71	69	68	56	68	65	63	68	62	65	56	57	63	61	64	63	62	.....	64.3
Hawley.....	Maximum	89	91	93	94	96	96	94	93	81	84	74	80	81	83	91	86	82	86	85	84	82	77	77	78	76	80	86	86	78	69	.....	84.4
	Minimum	59	59	59	60	65	61	56	59	60	57	48	38	40	64	58	66	39	54	57	51	50	46	64	38	55	50	51	61	54	52	.....	54.4
Huntingdon.....	Maximum	93	95	95	96	97	99	94	90	87	82	78	82	83	89	95	85	80	90	80	87	86	86	83	77	80	81	89	87	85	75	.....	86.9
	Minimum	50	53	63	65	60	60	63	64	63	57	48	42	52	63	63	66	47	63	62	49	54	49	64	46	58	55	52	58	55	59	.....	56.8
Indiana.....	Maximum	87	90	91	95	96	97	87	88	85	82	76	82	86	84	90	86	81	86	85	84	83	82	82	80	77	76	83	81	72	74	.....	84.3
	Minimum	51	56	60	58	60	61	60	64	63	58	43	54	55	65	60	64	50	68	64	60	55	50	59	52	61	57	56	57	49	.....	57.4	
Johnstown.....	Maximum	93	94	96	96	100	98	89	90	90	82	82	84	87	88	94	85	82	89	78	88	85	86	86	74	78	81	88	84	74	75	.....	86.5
	Minimum	53	57	63	61	62	62	65	67	66	60	48	47	52	62	62	66	50	70	61	54	56	54	61	51	61	58	55	59	58	55	.....	58.5
Lancaster.....	Maximum	93	98	96																													

UNP

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXX. JULY, 1925. No. 7

GENERAL SUMMARY.

In marked contrast to June of this year the predominant feature of the weather in the State during July was the almost general excess in precipitation in all sections. While the average for the State has been exceeded six times, the greatest for any station, 14.95 at Colebrook, marks the second highest July total and the fourth highest for any month since State-wide weather records were begun in 1888. The rains were well distributed throughout the month and came mostly in the form of thunder-showers, with no prolonged dry period in any part of the State. Temperatures averaged somewhat below normal with unseasonably low readings at a few northern stations on the 1st. The highest readings for the month were recorded generally on the 6th or 7th. The frequent showers afforded needed moisture to crops, particularly in the eastern and southeastern portions of the State where drought conditions still obtained at the end of June. Corn and late truck crops made rapid growth during the month and tobacco showed a marked improvement at the end of July as compared with its condition a month earlier. Fruits did not fare so well: the spring frosts having damaged most of the peach crop, while apples promised a yield well below the average. Blackberries and raspberries were plentiful and of good quality. Several severe electrical storms occurred quite generally on the 15th and 16th in a narrow belt running west to east across the State just south of the center. Considerable damage was reported at Mt. Gretna, near Colebrook, on the 16th and also on the 25th, when lightning struck the State military encampment and injured several militiamen. At Biglerville a series of three violent thunderstorms occurred on the 15th, resulting in a great damage to property and causing small streams to overflow their banks, washing fields and crops in this vicinity and flooding many cellars. Damaging local thunderstorms occurred also at Freeland on the 7th and at Lebanon on the 12th.

TEMPERATURE.

The mean temperature for the State, as determined by the records from 80 stations, was 70.5°, or 1.8° below the July normal. The highest mean was 76.2° at the Philadelphia Weather Bureau and also at Germantown, Philadelphia, and the lowest was 62.4° at Mount Pocono. The highest temperature recorded during the month was 101° at Phoenixville on the 7th, and the lowest was 32° at West Bingham on the 1st. The greatest daily temperature range was 48° at Somerset on the 15th.

PRECIPITATION.

The average rainfall for the State, as shown by the records from 133 stations, was 5.57 inches, or 1.55 inches above the July normal. The greatest monthly amount at any station was 14.95 inches at Colebrook, and the least was 1.54 inches at Bradys Bend. The greatest amount recorded in any 24 consecutive hours was 5.99 inches at Colebrook on the 25th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of sunshine	Number of hours possible	Percentage of possible	Average per cent		Total movement, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	*Highest	Direction	Date
Erie.....	249.5	461.4	54	75	74	8,089	10.9	29	sw.	2
Harrisburg.....	313.4	455.2	69	74	64	4,004	5.4	33	nw.	7
Philadelphia.....	295.8	455.2	65	76	70	5,675	7.6	41	ne.	12
Pittsburgh.....	252.5	458.3	55	76	62	6,326	8.5	44	nw.	16
Reading.....	269.0	455.2	59	74	70	3,918	5.3	25	sw.	16
Scranton.....	.....	.....	63	91	84	4,190	5.6	24	nw.	16

* For any five-minute period.

COMPARATIVE DATA FOR JULY

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	69.2	97	38	3.45	7.10	1.40	.....	.....	.....
1889.....	71.6	96	39	6.80	15.02	1.04	.....	.....	.....
1890.....	70.7	101	33	3.52	6.40	0.70	13	11	7
1891.....	67.8	97	34	6.32	11.61	2.63	11	10	10
1892.....	73.1	103	38	3.93	8.59	2.15	15	11	5
1893.....	72.1	102	36	3.15	6.27	1.58	15	12	4
1894.....	73.8	103	31	2.32	5.96	0.53	15	11	5
1895.....	69.1	102	34	3.24	6.18	1.16	12	12	7
1896.....	72.8	98	40	6.89	15.59	3.04	10	11	10
1897.....	73.4	103	41	6.26	14.51	2.10	10	11	10
1898.....	74.8	107	33	3.36	6.29	1.15	12	12	7
1899.....	72.3	101	35	3.91	8.24	1.53	12	11	8
1900.....	74.0	104	35	4.86	8.26	1.81	14	12	5
1901.....	76.4	107	45	3.88	7.34	1.52	10	13	8
1902.....	71.8	99	41	6.04	12.35	2.11	10	12	9
1903.....	71.2	98	35	5.36	8.81	1.76	13	12	6
1904.....	70.6	99	34	4.68	9.19	1.92	12	11	8
1905.....	72.6	99	39	4.87	9.78	2.49	10	12	9
1906.....	71.3	95	38	4.31	8.98	1.41	12	13	6
1907.....	71.5	96	34	3.84	9.46	1.01	15	12	4
1908.....	73.9	104	39	4.81	9.57	2.15	14	12	5
1909.....	69.7	98	34	2.14	4.50	0.75	16	11	4
1910.....	72.8	99	41	2.42	5.15	0.45	16	11	4
1911.....	73.7	105	36	2.81	7.41	0.90	16	11	4
1912.....	71.3	100	36	5.29	12.65	1.04	12	11	8
1913.....	71.8	101	40	4.16	8.00	0.82	15	10	6
1914.....	71.3	101	38	4.19	10.29	1.10	12	11	8
1915.....	70.7	98	40	5.28	12.30	1.82	10	13	8
1916.....	74.3	98	41	4.45	12.41	0.39	14	10	7
1917.....	72.1	105	40	4.33	9.76	1.90	12	12	7
1918.....	70.1	99	35	3.05	9.96	0.77	16	10	5
1919.....	72.6	104	34	5.90	14.58	1.70	16	8	7
1920.....	69.5	96	33	4.37	10.70	1.27	15	10	6
1921.....	75.9	104	45	4.13	9.19	1.23	19	9	3
1922.....	71.9	98	38	3.68	7.58	1.45	14	10	7
1923.....	71.0	100	32	4.24	9.86	0.92	15	9	7
1924.....	69.7	97	34	3.42	7.12	0.71	17	10	4
1925.....	70.5	101	32	5.57	14.95	1.54	13	11	7

RIVER CONDITIONS

Stations	Rivers	Mean stage		Highest stage	Date	Lowest stage		Date	Flood stage
Port Jervis.....	Delaware.....	3.0	6.0	27	2.0	16	18		
Phillipsburg.....	Delaware.....	1.7	4.0	27	0.7	4	22		
Mauch Chunk.....	Lehigh.....	3.8	4.1	1	3.5	4	12		
Wilkes-Barre.....	Susquehanna.....	4.3	5.5	25	3.5	18	20		
Williamsport.....	Susquehanna.....	1.2	2.6	25	0.6	16	20		
Harrisburg.....	Susquehanna.....	3.9	4.4	26	3.5	1	17		
Freepot.....	Allegheny.....	2.5	5.6	23	1.6	21	22		
West Newton.....	Youghiogheny.....	0.8	4.4	23	0.3	9	20		
Lock No. 4.....	Monongahela.....	14.0	20.7	23	12.9	20	31		
Pittsburgh.....	Ohio.....	7.7	11.9	23	7.0	21	22		
Beaver Dam.....	Ohio.....	7.6	12.4	23	6.8	22	30		

Climatological Data for July, 1925

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	13	72.1	.....	96	7	51	1	31	5.98	+0.93	1.96	0	16	14	12	5	nw.	John A. Frick.
Altoona	Blair	1,615	38	68.4	-2.7	89	4	42	1	35	5.49	+2.22	1.65	0	11	18	11	2	w.	Lewis E. Biller.
Bethlehem	Northampton	295	41	72.6	-2.1	93	7	52	1	29	7.80	+3.24	1.98	0	13	0	23	0	sw.	Rev. R. H. Brennecke, Jr.
Biglerville	Adams	652	3	72.8	.....	97	7	47	1	35	7.24	.....	4.32	0	7	15	8	8	.....	R. C. Walton.
Bustleton	Philadelphia	125	6	73.4	.....	97	7	53	18	35	6.49	.....	2.35	0	9	15	8	8	.....	Experiment Station.
Carlisle	Cumberland	467	58	73.7	-1.1	96	7	49	1	34	5.47	+1.61	1.28	0	13	17	7	5	se.	Prof. C. E. Miller.
Catawissa	Columbia	520	28	71.0	-1.7	98	7	44	1	41	5.82	+2.05	1.88	0	11	20	6	5	w.	H. H. Yetter.
Center Hall	Center	1,272	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. W. Smith.
Chambersburg	Franklin	580	25	72.6	-2.1	96	7	46	1	38	4.37	+1.09	1.07	0	10	9	13	9	nw.	William B. Spear.
Clearfield	Clearfield	1,120	15	71.2	-0.3	96	6	41	1	45	6.13	+2.13	2.50	0	12	17	12	2	sw.	E. W. Hess.
Coatesville	Chester	380	37	72.8	-1.9	95	7	50	1	32	5.35	+0.33	1.13	0	13	8	18	5	nw.	Prof. W. T. Gordon.
Colchbrook	Lebanon	560	15	69.6	.....	93	7	46	1	34	14.95	+10.91	5.99	0	16	17	3	11	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	37	67.1	-3.1	89	6	40	1	35	5.55	+1.11	1.10	0	13	18	7	6	w.	T. B. Lloyd.
Ephrata	Lancaster	380	24	.....	.....	.....	.....	.....	.....	.....	7.11	+2.57	.....	0	.....	.....	.....	.....	.....	Ira J. Keath.
Freeland	Luzerne	1,970	10	65.6	.....	90	6	40	1	33	7.67	.....	1.65	0	16	9	9	13	nw.	Theo. Reichmann.
George School	Bucks	190	18	72.5	-1.1	97	7	48	1	36	6.53	+2.15	1.13	0	13	16	7	8	sw.	Prof. N. W. Swayne
Gettysburg	Adams	600	51	74.0	0.0	100	7	46	1	37	3.18	-0.44	1.19	0	8	11	13	7	s.	Col. E. B. Cope.
Gordon	Schuylkill	840	21	68.2	-2.0	92	7	41	1	37	6.27	+1.03	1.56	0	14	12	12	7	n.	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875	1	65.0	.....	89	16	44	30	31	5.47	-0.20	1.16	0	16	15	7	9	w.	Gustav Holtz.
Hamburg	Berks	535	32	69.4	-4.5	93	7	46	1	34	8.04	+3.33	1.38	0	13	13	10	8	sw.	State Sanatorium.
Hanover	York	600	21	74.6	-0.8	97	7	49	1	30	5.20	+0.73	1.12	0	11	21	7	3	se.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	55	73.6	-1.2	94	7	54	1	27	7.26	+3.39	1.36	0	14	6	11	14	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	6	68.8	.....	92	7	44	19	38	4.45	.....	0.78	0	14	16	10	5	w.	J. S. Pennell.
Holtwood	Lancaster	200	10	73.6	.....	97	7	54	1	26	3.89	.....	1.56	0	10	15	4	12	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	37	70.8	-1.4	95	6	40	1	41	5.62	+1.83	1.33	0	11	14	12	5	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	.....	.....	.....	.....	.....	.....	.....	.....	3.23	.....	1.25	0	7	4	16	11	.....	John S. Madore.
Jersey Shore	Lycoming	570	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Kennett Square	Chester	340	53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster	Lancaster	255	37	73.3	-0.1	99	7	46	1	39	6.17	+2.25	1.70	0	11	18	6	7	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	27	68.4	-1.8	91	7	41	1	38	3.61	-0.69	0.76	0	13	13	16	2	.....	C. P. Darling.
Lebanon	Lebanon	469	84	71.9	-1.7	96	7	50	1	30	10.71	+6.44	3.94	0	14	15	9	7	nw.	S. B. Benzinger.
Lewisburg	Union	450	50	72.4	+0.9	95	6	45	1	38	6.71	+2.74	1.47	0	14	12	11	8	w.	Prof. W. G. Owens.
Lock Haven	Clinton	580	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles Dunn.
Lykens	Dauphin	680	10	69.8	.....	93	7	42	1	41	8.65	.....	1.32	0	15	12	15	4	nw	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	34	69.0	-3.3	94	7	45	1	37	3.38	+3.28	1.65	0	14	18	4	9	w.	R. K. Wintermute.
Millintown	Junata	745	21	71.8	-0.9	94	6	45	1	37	7.82	+3.71	1.39	0	16	14	9	8	w.	Wellington Smith.
Montrose	Susquehanna	1,420	22	63.2	-5.0	85	12	42	18	31	5.77	+1.51	1.30	0	13	16	8	7	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	22	62.4	-3.8	86	7	40	1	35	6.90	+1.74	1.59	0	14	14	8	9	nw	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	13	66.6	.....	89	6	40	1	40	7.95	+2.98	1.97	0	13	14	14	3	.....	A. H. Boatman.
Narberth	Montgomery	300	6	73.2	.....	96	7	48	1	31	6.19	.....	1.77	0	12	12	9	10	nw.	Charles Decker.
Neshaminy Falls	Bucks	60	36	72.5	.....	97	7	46	1	35	5.82	.....	2.26	0	13	20	3	8	w.	North Springfield Water Co.
Palmerston	Carbon	398	8	71.0	.....	94	7	46	1	35	8.36	.....	1.84	0	15	8	18	5	sw.	F. G. Breyer.
Philadelphia (a)	Philadelphia	114	54	76.2	0.0	96	12	60	1	24	4.99	+0.66	1.75	0	13	8	15	8	nw.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	9	75.8	.....	98	12	56	1	27	5.43	.....	2.10	0	10	.....	.....	.....	.....	Commandant, Navy Yard.
Phila. Point Breeze	Philadelphia	90	.....	76.0	.....	96	7	57	1	24	5.47	.....	1.85	0	12	8	15	8	sw.	Atlantic Refining Co.
Philadelphia-Gtn.	Philadelphia	113	.....	76.2	.....	96	7	58	1	25	7.08	.....	2.11	0	11	10	13	8	.....	Julius Bernstein.
Phoenixville	Chester	100	14	73.7	.....	101	7	46	1	35	6.18	.....	1.51	0	11	21	9	1	s.	North Springfield Water Co.
Quakertown	Bucks	496	40	71.1	-1.4	96	7	42	1	36	8.27	+3.45	1.67	0	14	13	11	7	nw	John E. Benner.
Reading	Berks	325	55	73.4	-2.1	97	7	54	1	27	11.66	+7.44	2.89	0	16	10	13	8	se.	U. S. Weather Bureau.
Scranton	Lackawanna	805	30	69.4	-2.3	90	7	49	18	31	6.80	+2.97	2.11	0	13	7	10	14	s.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	35	70.5	-3.0	94	7	43	3	41	5.57	+1.19	1.50	0	13	11	13	7	sw.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	29	74.7	.....	96	7	52	1	27	4.66	+0.07	1.23	0	14	11	11	9	nw.	W. S. Guiles.
State College	Center	1,217	40	69.5	-1.1	92	7	45	1	30	5.88	+2.10	1.37	0	12	12	13	6	w.	C. A. Kern.
Towanda	Bradford	754	30	67.9	-2.7	91	6	45	1	33	5.29	+1.22	1.13	0	13	12	12	7	s.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	59	65.1	-3.8	90	6	37	1	43	3.08	-0.92	1.13	0	10	19	7	5	w.	George W. Hill.
West Chester	Chester	455	87	71.8	-2.5	95	7	50	1	31	4.58	-0.25	1.14	0	14	7	9	5	nw.	Arthur M. Hay.
Williamsport	Lycoming	521	38	72.2	-0.9	97	7	46	1	33	4.59	+0.63	1.54	0	13	18	8	5	nw.	George A. Beck.
York	York	400	37	72.4	-2.0	96	7	45	1	32	5.45	+0.96	1.18	0	13	15	14	2	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	32	72.2	.....	93	6	46	1	35	3.56	-0.31	1.02	0	12	6	11	14	sw.	U. S. Engineer.
Bradford	McKean	1,427	10	.....	.....	90 ^a	6	.....	.....	.....	2.97	.....	0.63	0	11	12	14	5	sw.	City Engineer.
Brady Bend	Armstrong	930	7	65.1	.....	89	9	35	29	41	1.54	.....	0.40	0	13	12	10	9	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	34	65.1 ^a	-3.3	89 ^a	9	35 ^a	1	42 ^a	2.68	-1.88	0.60	0	10	17	9	5	.....	John Fawcett.
Claysville	Washington	1,150	21	73.0	+0.3	94	6	43	1	41	5.61	+1.29	2.52	0	12	15	10	6	nw.	J. L. Melvin.
Corry	Erie	1,430	13	67.2	.....	88	6	40	1	35	3.29	.....	0.69	0	14	12	10	9	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	28	71.0	-2.3	92	6	42	1	39	6.43	.....	1.91	0	11	14	13	4	sw.	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	7	67.4	.....	89	6	40	1	37	6.01	.....	2.78	0	11	17	10	4	w.	D. H. Jones.
Elk Lick	Somerset	2,680	8	65.8	.....	88	6	37	1	41	5.76	.....	2.00	0	14	17	9	5	w.	J. S. Stevanus.
Franklin	Venango	957	52	69.1	-1.4	92	9	41	1	38	4.03	-0.45	1.04	0	12	14	7	10	w.	Robert A. Ferguson.
Greensburg	Westmoreland	1,150	17	71.6	-0.3	92	6	45	1	35	4.99	+1.20	2.05	0	12	8	19	4	w.	Westmoreland Water Co.
Greenville	Mercer	1,950	30	69.9	-0.6	92	6	39	1	40	4.24	-0.12	1.63	0	13	11	15	5	.....	J. R. Marks.
Grove City	Mercer	1,256	18	68.0	-2.1	89	7	42	1	40	3.05	-1.17	0.92	0	15	12	10	9	sw.	Prof. H. W. Harmon.
Indiana	Indiana	1,350	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Harry Herlinger.
Ingram	Allegheny	2	.....	71.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. R. Gormly.
Irwins	Westmoreland	1,100	23	71.6 ^a	-0.8	94	6	41	1	42 ^a	3.77	-0.39	1.38	0	10	22	7	2	.....	J. B. Gallagher.
Johnstown	Cambria	1,184	43	72.1	-0.9	96	6	45	1	41	7.07	+2.66	2.11	0	13	9	19	3	s.	E. C. Lorentz.
Lycipps	Westmoreland	1,420	33	71.2	-1.2	90	9	47	1	32	7.37	+2.33	1.79	0	10	7	15	9	w.	Westmoreland Water Co.
New Castle	Lawrence	808	42	70.3	-2.3	95	7	43	1	44	2.57	-1.57	1.50	0	8	7	16	8	sw.	New Castle Water Co.
Newell	Fayette	800	5	72.9	.....	93	6	47	1	35										

The departures from normal temperature and precipitation are computed only from records for stations that have ten or more years of observation, but all complete reports are used in determining means for the State. † On other dates also.

Reference letters, ^a, ^b, ^c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record. T, indicates precipitation less than .01 inch, rain or melted snow.

†† Post-Office addresses are as follows of Beaver Dam, Beaver; of Bradys Bend, East Brady; of Lycippus, Greensburg; of Neshaminy, Oakford.

Daily Precipitation for July, 1925

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh.....	.01	.09			1.02		.07		.36	T.	.57		.45			.09	.29				.14	.09	.58		.22	1.74			.09		.17	5.98
Altoona	Juniata.....	.17				.50		.11			.57		.02				.14					1.32	1.65			.10		.06			.85	5.49	
Ansonia|||	W. Br. Susq.....	.37				.07		.61	.09			T.	.01					.42	T.				T.	1.08			.15	1.02	.03	.28			4.13
Baker's Summit	Juniata.....			.12		.29	.28	.01		.20	.05	.30	.02					.12					1.10	.96			.07		.19			.81	4.52
Bethlehem	Lehigh.....	.09				.97		.05	.26			.37				.20		.37				.65	.76			.72	1.18		.20			1.98	7.80
Biglerville	Susquehanna.....				.04			.05							4.32	T.						.50	.45			.50			.37			1.06	7.24
Blossville	Lower Susq.....																																
Bustleton	Lower Del.....	.34				.22			2.35				.12			.40						.43	.01				1.00					1.62	6.49
Carlisle	Lower Susq.....			1.28				.42	.03	T.	.02				1.06	.18	.19				T.	.40	.48			.18	.18		.05			1.00	5.47
Catawissa	N. Br. Susq.....	.13		.27				.57	1.31		.19					.79						.94	.72			.10			.16			.64	5.82
Center Hall	Susquehanna.....																																
Chambersburg	Potomac.....			.59	.26	T.		.05			.01				1.07	T.	T.				T.	.50	.45			.02			.57			.85	4.37
Clearfield	W. Br. Susq.....	.30		.25	T.		.05	.19		.17						.40						.83	2.50				.38	.67	.03			.36	6.13
Coatesville	Lower Del.....				.58		.61	.01		.01					.40	.46	.03					.23	.59			.38	.30	.62				1.13	5.35
Colebrook	Lower Susq.....	.01		1.08	1.13		.32	.02		.05					.43	1.80					.08	.60	1.05			5.99	.63	.39	.01			1.34	14.95
Conshohocken	Schuylkill.....	T.	.18		.28		.01	2.11		T.		.14			.25	.01	.42					.19	.26			.23	.71		T.			.17	5.84
Cresson|||	Juniata.....		.02		.50			.06	*	1.63	*		.02	.06			.20					1.22	.85			.15			.07	.25	*		5.83
Doylstown	Lower Del.....	.12			.93			.74	*	.46		.53			.29	.02	.46					.21	.07			1.10	1.81		T.			1.35	8.09
Driftwood|||	W. Br. Susq.....	.25			.41		.07	.44	.08	.04	.15						.08	T.				.21	1.35			.35		.10	.09	.36	T.	.02	4.00
Emporium	do.....	.23		.10	.13		.15	.42		.21						.96						.40	1.10			.68	.58	.28	T.		.31	5.55	
Ephrata	Lower Susq.....																																7.11
Forest City	N. Br. Susq.....				.62	T.		.81		.07	.14						.64					.37	1.77				.27	.36	T.	.42		.13	5.60
Freeland|||	Lehigh.....	.06			.49		.11	1.65	1.20	.04	.12					.03	.90					.05	1.25	.38		.75	.24		.36	T.	.04	7.67	
George School	Lower Del.....	.09			.30			.75	.60	T.		.34			.62		.62					.34	.05	.03		1.05	.61				1.13	6.53	
Gettysburg	Potomac.....				.40		.02								.53		.17					.49	.31						.07			1.19	3.18
Glenville|||	Susquehanna.....	.11		.20	.19	.03	.05	.60		.17		.16			.04	.98					.07	1.06	.96			.35	.41		.04		.83	6.25	
Gordon	Lower Susq.....	.14			.46		.11	.40		.36					.11	.36	.95					.52	1.56			.19	.08		.18		.85	6.27	
Gouldsboro||	Lehigh.....	.22		.05	1.12		.02	.25		.05	.06				.30	.80						.31	.85			.20	.22	.12	.20		.70	5.47	
Graterford	Schuylkill.....	.21			.28			.16	.42	.09	.31				.08	.06	.94					.26	.12			1.41	.73				.82	5.89	
Hamburg	Schuylkill.....	.16		.90			.05	.42		.71		.15			.20	1.25						*	1.38			1.22	.82				.78	8.04	
Hanover	Lower Susq.....				.43			.61							.68	.28	.58					.74	.38			.11	.37		.10		.92	5.20	
Harrisburg	do.....	.03		1.32	.02	.04	.22	T.		T.		T.			1.26	1.35					.22	.46	.50			.54	.20	T.	.01		1.09	7.26	
Harrisburg East	do.....				1.57		.04	.16							.129	1.59					.20	.40	.52			.53	.21		.01		1.15	7.70	
Harrisburg North	do.....	.06			2.11		.04			.01					.34	.23	.55					.02	.40	.72			.87	T.	.06	.01		.96	6.38
Hawley|||	Upper Del.....	.33			.75	T.	.01	*		.40	T.	.73			.75	.78	.67					.05	.78	.02		.30	.15	.01	.25	T.		4.45	
Holtwood|||	Lower Susq.....				.05				.18						1.56	.23	.67				.08	.28	T.			.38	.07	T.		.30	.76	3.89	
Huntingdon	Juniata.....	.02		T.	1.15		T.			.11					.77	.33						1.33	.90				.28	.05	.03		.65	5.62	
Hyndman	Potomac.....				.06					.17								.17					1.25	.46					.42		.70	3.23	
Jersey Shore	W. Br. Susq.....																																
Kennett Square	Delaware.....																																
Lancaster	Lower Susq.....				.97							.09			.60	1.15					.14	.59	.29			.10	.50		.04		1.70	6.17	
Lansford|||	Lehigh.....	.04			.56		.15		.30		.21		.06			.02	1.09					.12	1.04	.69		*	.27		.74		.03	5.32	
Lawrenceville	N. Br. Susq.....	.50		.09	.44		.16	.05		.52	.18				.76	.23	T.					T.	.20			.20		.10			.18	3.61	
Lebanon	Lower Susq.....	T.		1.14			.11	.02		.02		.28			.17	3.94					.07	.88	.07			2.51	T.	.01		.11	1.38	10.71	
Leolyn|||	W. Br. Susq.....	.10	.50		1.32	.03	*	.60	*								1.45					.25	1.33						.60			6.18	
Lewisburg	do.....		.10		.38		.03	.62		.22				.03	.80							.82	1.47			1.10	.03	.02	.29		.80	6.71	
Lloyd	do.....	.16		.08	.81	1.28				.31					.19	1.07						.19	1.07				.24	.12	.46		.32	6.53	
Lock Haven	do.....																																
Lykens	Susquehanna.....	.11		T.	1.17		.76	.25	T.	.77		.05			.05	1.07	.82				T.	.45	1.32				.82		.03	.02		.96	8.65
Mauch Chunk	Lehigh.....	.04			.85		.11	.19		.25					.05	1.23	.01					1.00	1.65			.25	.69		.93		.13	8.38	
Mifflintown	Juniata.....	.22		.17	1.08		.53	.11		.73					.11	.61					.15	.94	1.39			.08	.20	.30	.21		.99	7.82	
Montrose	N. Br. Susq.....	.60		.02	1.30		.42	.16		.63					.65	.05	.05					.40	1.15						.20		.14	5.77	
Mount Pocono	Upper Del.....			.10	.63		.06	.81																									

Daily Precipitation for July, 1925—Continued from page 33

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio		.01		T.	1.02		.11	.45		.44					T.	.17					.02	.48				.72		.04		.04	.06	3.56	
Beaver Falls|||	Beaver					.50			.73		.74	.30						.67				T.	.33				1.09	.02	.05		.12	.09	4.64	
Bradford	Allegheny	.26		.09	.16			T.			.29						.56	T.				T.	.10		T.		.56	.05	.63	.14		.13	2.97	
Bradys Bend	do.	T.		.01	.03			.12	.06		.40	.02					.17	.04				.01	.20				.21				.03	.24	1.54	
Brookville	do.			.15		.12	.18	.40			.60						.15					.25	.10				.25	T.		T.		.48	2.68	
Clarion	do.	.18		T.	.07		.03	.25	.49	.03							.89						.13			T.	.60					.18	2.85	
Claysville	Ohio	.01			.26	.17		.07		1.08	T.						2.48	.04				.40	.54				.27		.05		.24	5.61		
Cloe	Allegheny	.07		.27			1.03	.13	.33		.51	.13	T.				.20					.67	.43				.26	.30	T.		T.	.48	4.17	
Clymer	Conemaugh	T.			.63		.36	.40									T.	.36				.66	2.40				.33	.02	.19		.44	6.43		
Colegrove|||	Allegheny																					.60	2.94											
Confluence|||	Youghiogheny		.12		.08		.13	.60		.39		.08					.60					.60	2.94				.16		.60	.16	.13	6.59		
Coraopolis|||	Ohio		T.		.88			.54		.51	.15						.77					.08	.55				1.03	T.	.04	T.	.12	4.67		
Corry	Allegheny	.06		.01		.23	.08			.51							.66	T.	T.			.12	.27			.01	.34	.01	.69	.10	T.	.20	3.29	
Coudersport	do.	.30		.14		.12	.14		.02								.80	*				.60	.45			.40	1.50		.55	.02	.22	5.26		
Creekside	Allegheny	.01		.83			2.00			.83							*	.22				*	2.43			*	.27	*		*		.34	7.03	
Derry	Conemaugh			.99			.02		1.18	.41	T.	.08					.17					.60	1.91		T.	.38		.39			*	.30	6.43	
Ebensburg	Conemaugh			.86			.27		.80		.08						.20					.93	1.85				.25	.05	.09		.63	6.01		
Elk Lick	Youghiogheny	.04		.10			.14	.06	.45	.07	.16						.53	.02				2.00	.58				.04		.62		.95	5.76		
Falls Creek	Allegheny	.08		.20		.06	.45	.35	.29								.17					.19	.83				.13	.12	.05		.32	3.24		
Franklin|||	Allegheny	.33		.16		.15	.83		.65	.10							1.04					.08					.47			.12	.04	.06	4.03	
Freeport|||	Allegheny		.09		.35		.68		1.13	.17							.11					.03	.69				.40				.15	3.80		
Greensburg	Youghiogheny	T.		.18	.50		.05		1.18	.08							.41				T.	.67	1.38			T.	.26	T.	.04	T.	.03	.21	4.99	
Greenville	Beaver			.10		.65	1.60	.03	.80								.43	.07				.02	.17				.05	.09		.02		.21	4.24	
Grove City	Beaver	.02		.01	.02	.01	.92	.19	.90	T.	.50						.12	.03					.07				.05	.02		T.		.03	3.05	
Herrs Isl. Dam|||	Ohio		T.		.58			.14		1.36	.23						.49					.12	.66				.36		.02	T.	T.	.17	4.13	
Indiana	Conemaugh																																	
Ingram	Ohio	.01		.82		.12	.03		1.05	.09							.69	T.				.43	.45			T.	.62	.05	T.		.02	.38	4.76	
Irwin	Youghiogheny	T.		.29		.07			.62		T.						.40					.40	1.38				.30		.05		.01	.25	3.77	
Johnstown	Conemaugh			.28	.30	.52	.07	T.	.58	.40	T.						.35					T.	1.31	2.11				.32	.16	.05		.61	7.06	
Ketner	Allegheny	.31		.02	.03	.03	.17	.27	.19								.40	.25				.12	.41				1.00	.26	.32	.07		.25	4.10	
Kregar|||	Youghiogheny			.17			.32	.07		.86		.18					.69	.02				.13	2.65	.15			.50	T.		.18		.05	5.97	
Linesville|||	Beaver			.06		.45	.22	.55									.83				*		.31			*	.17	.01	T.	.06			2.66	
Lock No. 4|||	Monongahela		.08		.13		.60		.25	.60	.01						.61					.23	1.26			.11		.60	.19		.06	4.73		
Lycippus	Conemaugh	T.		.90		.09		1.75	T.	.45							.35					.79	1.79				.46	T.	.46		.33	7.37		
Martin	Monongahela		.49		.22		T.	.17	.27	.85	.02						.16					.04	1.95				.03		.02		.03	4.25		
New Castle|||	Beaver	.01				.04	.62		1.50	.14																.07			.09		.10	2.57		
Newell	Monongahela	.64		.11		.14	.06		.70								.54					.75	1.26			.27		.81	.18		.18	5.64		
Parkers Landing|||	Allegheny	T.	T.		T.		.22	.40	.44	.15							.20					T.	.05				.05			T.	T.	.08	1.59	
Pennline|||	Beaver					.36	.20		.58	.01							.64					.25					.41		.04	.05		.03	2.57	
Pittsburgh***	Ohio	T.		.50		.08	.01	1.48									.40	T.				.56	.01			.43	T.	.03		.02	T.	.29	3.81	
Ridgway	Allegheny	.18		.21	.42	.34	.50	.91	.15								1.03					.34					1.25	.73	.13	.12	.20	6.51		
Saltsburg|||	Conemaugh		.01		1.95		.35		.40	.23		.47					.68					.03	2.30				.63			.04	.04	.02	7.15	
Saegerstown	Allegheny	.18		.05		.16	.27	.37	.81								.40					.05				.10	.22		.07			.05	2.73	
Sharon|||	Beaver					.03	.47		1.27	T.	.20						.51					.12					.06			.09	.03		2.76	
Somerset	Youghiogheny			.30			.93		1.25	.43							.40		.15		.10		.02	2.75			.15	.50		.40	.90	8.48		
Springdale|||	Allegheny			1.27		.51		.78	.12	.80							.80					.12	1.05				.38		.06		.15	6.04		
Uniontown	Monongahela	1.02		.30		.61	.05	.93	.01	.02							.29	.02				.93	1.71				.18	.01	.58		.17	6.83		
Unity Reservoir|||	Youghiogheny			.74			.05		1.52		.40						.27					.71	1.63				.26		.50		.05	.22	6.35	
Vandergrift	Conemaugh			.93		.45	.05		.80	.23							.20					.40	.95				.40	.04	.02		.04	.45	4.96	
Warren	Allegheny	.10		.05		.08	1.18	.00	T.								.95	.06					.18				.66	.18		.12	.06	.12	3.74	
Washington	Ohio	.41		.20		.02	.03	T.	.90		.01						1.76	T.				T.	1.01	.01		.12		1.09	T.		.26	5.82		
Waynesburg|||	Monongahela		.62	.34			.40	.72	1.10	*							.03					1.90							.20			5.31		
Westford|||	Beaver			.12	*		.35	.22	.64									1.10					.26				.37	.12			T.	.17	3.35	
West Newton|||	Youghiogheny		T.		.62		.21	.62	.53		.06						.73					.33	1.32				.30			.10		.08	4.90	
Zelienople	Ohio		.01		.12		.43				.29						.67					T.	.02	.23			.75		.02	.01	.09	.06	2.70	
Lake Drainage.																																		
Erie***	Lake Erie	.04		T.		.01	.04		.02	.68							.74					.11	.02				.22	.22	T.	.42		.18	2.70	
West Bingham	Genesee	.13		.16			T.	.46		.01							.58	.04	T.			T.	1.00				.98	.47			.18	4.01		

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement.
T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Post Office address:—Greensburg. † Daily amounts inconsistent.</

Daily Temperatures for July, 1925

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum.....	78	84	82	83	89	92	96	83	84	81	90	91	81	84	83	89	82	72	83	86	74	81	81	84	75	81	82	85	76	80	66	82.5	
	Minimum.....	51	61	57	58	65	61	72	73	68	69	69	67	61	56	64	68	64	52	53	56	64	67	58	56	59	63	65	61	58	55	62	61.7	
Altoona.....	Maximum.....	77	81	78	89	85	88	89	81	79	80	87	85	78	79	83	87	71	75	79	79	73	78	73	79	84	81	74	78	71	75	67	79.5	
	Minimum.....	42	55	51	57	62	61	68	67	60	66	62	68	59	50	54	58	60	46	48	51	67	65	53	51	55	62	63	55	50	50	56	57.2	
Beaver Dam.....	Maximum.....	81	85	85	88	87	93	92	85	91	92	89	88	83	80	87	86	75	72	81	83	79	80	79	84	84	85	78	74	76	79	76	83.1	
	Minimum.....	46	57	57	64	67	68	70	71	63	69	67	70	61	53	61	73	61	56	52	56	67	65	55	51	56	64	72	59	50	54	61	61.2	
Bradford.....	Maximum.....	78	80	84	78	85	89	88	88	89	87	88	87	87	.....	86	85	72	74	79	83	78	75	72	82	78	77	71	72	70	73	72	80.2 ^a
	Minimum.....	56	64	68	63	69	71	71	60	73	69	66	65	62	.....	60	58	56	65	66	75	72	69	57	65	72	71	65	60	58	58	58	64.7 ^a
Bradys Bend.....	Maximum.....	75	80	81	81	80	88	88	84	90	89	88	88	80	80	82	82	71	74	77	79	75	76	80	80	75	77	77	70	73	74	79.8		
	Minimum.....	36	46	45	52	56	67	60	64	56	64	56	60	56	42	51	51	53	39	39	42	58	58	42	39	46	55	57	49	35	42	53	50.4	
Brookville.....	Maximum.....	76	83	82	83	86	88	88	83	89	81	87	85	75	80	86	83	69	75	80	82	76	77	74	82	.....	83	76	76	71	76	62	79.8 ^a
	Minimum.....	35	51	46	51	60	57	63	60	57	59	55	58	45	43	53	55	43	39	46	61	51	42	40	.....	51	58	48	42	43	53	50.4 ^a	
Carlisle.....	Maximum.....	81	87	84	89	89	93	96	85	85	85	92	93	88	84	82	89	81	75	84	83	75	85	86	87	87	87	82	84	79	84	75	85.0	
	Minimum.....	49	60	60	59	68	68	74	72	65	73	72	70	64	56	61	65	63	52	54	57	66	67	58	53	63	65	66	60	56	56	62	62.4	
Catawissa.....	Maximum.....	76	87	88	85	92	96	98	83	87	86	94	94	84	85	87	87	83	74	77	80	82	76	77	74	82	83	76	77	81	83	64	85.1
	Minimum.....	44	46	50	61	67	57	74	72	57	63	64	58	49	55	55	60	49	49	56	64	65	53	51	56	51	62	57	50	49	58	57.0		
Chambersburg.....	Maximum.....	84	87	85	90	87	92	96	87	78	83	92	94	84	83	82	92	86	76	80	82	79	83	81	85	88	82	81	76	77	81	78	84.6	
	Minimum.....	46	59	59	60	67	68	71	70	65	74	70	67	60	53	58	65	62	48	48	51	66	67	58	50	61	65	64	58	53	61	60.6		
Claysville.....	Maximum.....	84	84	87	89	91	94	91	88	94	84	89	89	83	81	90	88	75	80	83	83	76	81	81	85	88	82	81	76	77	81	73	86.4	
	Minimum.....	43	57	53	65	63	66	61	70	63	69	70	59	51	57	63	59	45	49	55	65	65	53	47	52	65	63	64	43	51	58	59.5		
Clearfield.....	Maximum.....	86	78	89	88	93	96	92	89	81	84	94	91	82	89	91	89	75	86	88	88	75	80	78	86	85	83	80	80	78	84	75	84.8	
	Minimum.....	41	52	46	56	69	61	68	68	59	68	60	62	57	48	54	60	59	62	45	55	61	65	67	47	55	61	63	56	52	48	57	57.5	
Coatesville.....	Maximum.....	79	84	82	86	89	92	95	91	85	86	90	94	84	83	85	89	82	75	83	86	76	85	80	84	82	84	81	85	77	81	69	84.0	
	Minimum.....	50	52	59	54	69	64	72	72	68	71	71	68	64	56	61	65	62	52	52	54	67	69	58	54	58	65	65	61	57	53	64	61.5	
Corry.....	Maximum.....	74	77	80	77	85	88	85	80	86	81	86	81	86	84	80	79	83	80	74	72	79	82	73	73	72	81	79	71	74	68	74	78.1	
	Minimum.....	40	60	48	66	62	60	69	65	57	67	54	62	56	49	57	65	53	49	44	52	63	59	54	52	57	62	61	56	44	45	55	56.2	
Emporium.....	Maximum.....	75	80	78	82	85	89	88	82	85	80	84	85	75	79	81	84	68	72	77	80	76	78	73	79	81	76	71	76	71	73	62	78.2	
	Minimum.....	40	55	51	55	66	55	68	67	59	70	58	62	56	47	52	60	54	52	48	48	62	59	52	48	54	63	62	58	50	50	55	56.0	
Erie.....	Maximum.....	78	77	80	77	81	86	81	74	89	80	90	83	74	76	83	79	69	73	80	84	82	71	74	80	84	70	74	68	70	73	66	77.6	
	Minimum.....	50	64	59	69	66	71	69	65	61	69	66	69	63	59	66	65	57	59	57	62	66	66	63	62	66	64	65	62	57	60	63.0		
Franklin ^{Pa.}	Maximum.....	79	83	83	84	91	90	90	86	92	83	89	88	78	83	89	84	74	79	80	82	80	78	78	86	83	77	81	74	75	78	67	82.1	
	Minimum.....	41	48	53	59	68	63	68	69	60	65	57	62	57	51	57	62	58	50	46	50	56	65	52	48	54	59	61	55	45	47	52	56.1	
Gettysburg.....	Maximum.....	80	89	86	89	92	95	100	91	79	90	95	98	88	89	87	92	87	77	85	85	78	87	87	87	87	89	84	89	81	86	74	87.1	
	Minimum.....	46	60	59	60	66	66	71	71	65	72	72	68	66	55	58	65	62	55	50	53	64	66	58	50	60	63	63	59	52	59	60	80.8	
Greensburg.....	Maximum.....	80	81	86	85	88	92	90	86	92	90	89	87	81	80	88	88	73	78	81	84	75	79	75	84	84	80	77	76	74	78	68	82.2	
	Minimum.....	45	60	55	65	64	70	73	68	71	72	70	69	60	54	63	65	62	59	50	57	63	67	55	51	56	61	63	58	47	53	59	60.9	
Grove City.....	Maximum.....	75	79	78	81	82	87	89	81	89	89	86	85	82	79	82	82	79	75	79	81	79	78	75	82	82	75	76	79	74	78	78	80.5	
	Minimum.....	42	49	52	64	68	66	60	58	50	58	46	55	58	50	60	66	59	51	48	46	65	64	54	48	55	62	62	53	44	46	58	55.4	
Hamburg.....	Maximum.....	74	81	82	77	88	90	93	93	84	82	89	89	82	82	81	86	79	76	82	82	78	81	81	81	81	82	78	78	81	74	78	72	81.8
	Minimum.....	46	52	57	54	54	57	69	70	60	59	65	58	58	52	54	62	65	46	48	51	64	65	54	51	54	61	62	58	56	49	56	57.0	
Harrisburg.....	Maximum.....	77	86	82	87	89	91	94	83	79	85	91	92	80	82	76	87	79	75	82	82	71	84	79	84	80	86	82	82	76	81	68	82.3	
	Minimum.....	54	64	62	63	70	70	74	72	67	73	74	72	65	60	65	68	64	58	55	60	67	68	65	58	65	65	67	63	60	60	62	64.8	
Hawley.....	Maximum.....	77	78	82	80	86	91	92	83	85	83	89	88	85	86	83	92	79	69	81	85	79	82	79	83	82	78	79	84	75	78	75	82.2	
	Minimum.....	46	56	46	56	66	53	71	68	54	65	61	60	52	50	52	60	56	45	44	47	68	66	50	46	52	61	62	50	52	45	53	55.3	
Huntingdon.....	Maximum.....	81	87	84	90	90	95	95	82	79	86	93	91	82	85	89	91	76	73	83	84	76	87	78	85	88	84	79	82	76	81	69	83.9	
	Minimum.....	40	54	51	57	64	64	70	68	61	70	65	63	57	49	53	60	59	46	47	49	66	68	53	47	56	66	67	57	49	51	59	57.6	
Indiana.....	Maximum.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Johnstown.....	Maximum.....	86	86	90	90	89	96	93	88	92	81	89	90	84	85	91	91	75	80	83	84	75	81	78	88	87	84	76	78	75	82	65	84.3	
	Minimum.....	45	55	56	62	66	66	72	71	64	70	68	69	61	54	58	62</																	

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXX. AUGUST, 1925. No. 8

GENERAL SUMMARY.

The month as a whole was excellent for outdoor work and for sports, but was not wholly favorable for crops on account of the light rainfall, which averaged only about one-half of the normal. Practically no rain occurred after the 21st of the month, and the soil dried out to a considerable depth. Pastures were damaged more than field crops, and became very short and dry in some places. Late potatoes matured more rapidly than they would have done with sufficient moisture, and the yield was shortened to some extent as a result. Late truck crops, especially celery, suffered more or less. However the conditions seemed to be very favorable for tomatoes, which produced an exceptionally large and fine crop. Corn was the least harmed of all the crops, only late fields suffering to any extent, and at the end of the month nearly one-half of the crop had matured and was ready for cutting. Alfalfa produced a third cutting that was generally fair to good, and was cured with little or no loss. An excellent crop of buckwheat was harvested during the last half of the month.

The greater portion of the State was entirely free from damage by heavy or severe local storms. The worst storm that was reported was in Franklin County, and apparently moved in a northeasterly direction from the vicinity of Hagerstown, Md. A tornado funnel was seen in this storm, and heavy hail fell over a path about three-fourths of a mile in width. The damage by hail was estimated at about \$10,000, while the tornado damaged buildings about \$3,000 and crops about \$10,000. A newspaper space writer estimated the total damage by this storm at a million dollars, which was apparently a gross exaggeration.

TEMPERATURE.

The mean temperature for the State, as determined from the records of 80 stations, was 69.7°, or 0.7° below the August normal. The highest mean, 74.8°, occurred at two stations, Philadelphia Weather Bureau and Germantown, Philadelphia. The lowest mean was 61.4° at West Bingham. The highest temperature recorded during the month was 97°, at Brookville, on the 31st, while the lowest, 26°, occurred at West Bingham on the 28th. The greatest daily range was 54° at Brookville on the 31st.

PRECIPITATION.

The average rainfall for the State, as deduced from the records of 130 stations, was 2.28 inches, or 2.24 inches below the normal for August. The highest monthly total was 5.14 inches at Bradford and the least, 0.65 inch at Sharon. The greatest amount recorded in any 24 consecutive hours was 2.87 inches, at Harrisburg, on the 8th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total move- ment, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	*Highest	Direction	Date
Erie.....	273.1	428.7	64	68	68	7,522	10.1	31	ne.	27
Harrisburg.....	338.9	425.1	80	76	63	3,568	4.8	33	n.	8
Philadelphia.....	328.9	425.1	77	76	66	5,365	7.2	25	ne.	27
Pittsburgh.....	308.4	426.9	72	78	58	5,733	7.7	56	nw.	10
Reading.....	296.1	425.1	70	77	69	3,037	4.1	19	w.	1
Scranton.....	199.3	426.9	47	87	74	3,320	4.5	26	nw.	14

* For any five-minute period.

COMPARATIVE DATA FOR AUGUST

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	69.8	100	33	7.05	11.27	3.18	.....	.....	.....
1889.....	67.4	100	37	3.24	7.07	0.83	.....	.....	.....
1890.....	68.8	98	34	5.76	9.65	2.58	9	14	8
1891.....	69.6	99	35	5.09	11.77	1.43	8	12	11
1892.....	71.4	99	42	3.77	7.64	1.07	14	7	10
1893.....	70.4	99	30	4.50	9.99	1.68	14	10	7
1894.....	69.4	98	32	1.84	5.51	0.17	13	12	6
1895.....	72.3	101	32	3.23	6.03	0.59	15	11	5
1896.....	71.2	101	35	2.22	6.53	0.45	14	11	6
1897.....	67.9	97	34	3.17	8.60	0.34	14	11	6
1898.....	72.3	99	37	6.60	11.32	3.72	11	11	9
1899.....	71.2	101	38	4.01	10.09	0.07	14	10	7
1900.....	75.0	103	38	3.33	5.78	0.84	14	12	5
1901.....	72.0	99	42	6.81	13.65	2.48	10	12	9
1902.....	67.8	100	34	2.62	6.44	0.51	13	13	5
1903.....	67.2	99	36	5.29	8.05	2.00	9	12	10
1904.....	68.0	96	34	4.36	9.64	1.66	15	10	6
1905.....	69.6	95	36	5.71	10.83	1.92	12	12	7
1906.....	73.2	96	39	5.62	11.65	1.62	10	12	9
1907.....	68.0	97	32	2.94	6.19	0.77	16	9	9
1908.....	69.4	102	30	3.22	8.06	1.22	15	10	6
1909.....	69.4	100	34	2.31	7.76	0.12	16	9	6
1910.....	69.8	98	35	2.61	6.46	0.55	14	10	7
1911.....	71.4	102	36	7.63	15.14	2.60	11	8	12
1912.....	67.1	93	36	5.02	9.65	1.68	9	12	10
1913.....	70.4	102	38	2.69	10.93	0.70	17	9	5
1914.....	71.3	100	34	3.85	7.20	0.64	13	11	7
1915.....	68.0	99	34	6.71	14.44	1.92	10	11	10
1916.....	71.9	103	32	2.57	7.08	0.21	17	10	4
1917.....	71.2	101	38	6.69	17.50	1.06	15	10	6
1918.....	73.6	106	32	4.12	8.02	1.05	16	10	5
1919.....	68.2	94	35	5.43	12.03	2.35	13	10	8
1920.....	70.2	95	37	4.66	9.29	1.93	9	12	10
1921.....	68.4	97	35	3.83	6.68	1.81	17	8	6
1922.....	69.1	100	31	3.14	8.16	1.15	15	9	7
1923.....	69.2	96	30	3.10	7.30	0.59	15	11	5
1924.....	70.1	102	31	3.78	7.54	1.48	16	10	5
1925.....	69.7	97	26	2.28	5.14	0.65	18	9	4

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	2.6	3.8	11	1.7	30	18
Phillipsburg.....	Delaware.....	2.1	4.1	3	0.5	31	22
Mauch Chunk.....	Lehigh.....	3.7	4.2	1	3.4	27	12
Wilkes-Barre.....	Susquehanna.....	3.7	4.9	16	2.6	30	20
Williamsport.....	Susquehanna.....	0.8	1.6	1	0.2	31	20
Harrisburg.....	Susquehanna.....	3.7	4.1	1	3.3	29	17
Freeport.....	Allegheny.....	1.9	2.8	18	1.1	31	22
West Newton.....	Youghiogheny.....	0.7	1.6	2	0.2	31	20
Lock No. 4.....	Monongahela.....	12.8	13.2	3	12.5	31	31
Pittsburgh.....	Ohio.....	7.1	7.5	14	6.8	27	22
Beaver Dam.....	Ohio.....	7.3	8.3	11	6.4	6	30

Climatological Data for August, 1925

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy		Cloudy	Prevailing direction of wind
Atlantic Drainage.																				
Allentown	Lehigh	254	13	71.4	.....	93	31	49	22†	34	4.54	+0.19	2.10	0	8	16	12	3	nw.	John A. Frick.
Altoona	Blair	1,615	38	67.8	-1.8	88	30†	41	28	36	0.92	-2.47	0.38	0	5	23	7	1	w.	Lewis E. Biller.
Bethlehem	Northampton	295	41	72.2	-1.5	93	31	47	29	33	4.12	-0.20	2.29	0	5	7	22	2	sw.	Rev. R. H. Brennecke, Jr.
Biglerville	Adams	652	3	70.9	.....	93	31	46	22	36	2.20	.....	1.07	0	5	20	6	5	.....	R. C. Walton.
Bustleton	Philadelphia	125	6	72.2	.....	92	26	46	29	35	2.31	.....	1.09	0	6	20	5	6	n.	Experiment Station.
Carlisle	Cumberland	467	58	72.6	-0.1	95	26	47	28	43	1.33	-3.63	0.54	0	6	26	3	2	se.	Prof. C. E. Miller.
Catawissa	Columbia	520	28	70.6	+0.3	94	19†	41	28	42	2.18	-1.94	0.86	0	9	23	8	0	.....	H. H. Yetter.
Center Hall	Center	1,272	29	67.6	-1.6	88	9†	40	24	45	1.41	-2.55	0.63	0	3	22	4	5	.....	S. W. Smith.
Chambersburg	Franklin	580	25	71.2	-1.0	92	10†	46	22	39	2.17	-2.07	0.96	0	9	14	10	7	sw.	William B. Spear.
Clearfield	Clearfield	1,120	15	70.6	+0.7	95	25†	39	22†	45	1.52	-3.62	0.90	0	7	12	18	1	w.	E. W. Hess.
Coatesville	Chester	380	37	70.4	+0.7	90	31	40	29	38	2.04	-2.39	0.66	0	6	19	10	2	w.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	15	69.0	.....	89	31	45	22	33	3.57	-2.01	1.90	0	8	24	5	2	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	37	66.2	-1.7	85	19†	36	28	38	1.24	-2.83	0.58	0	6	21	6	4	w.	T. B. Lloyd.
Ephrata	Lancaster	380	24	70.2	-1.6	90	31	46	22†	33	1.84	-3.06	0.85	0	5	19	10	2	ne.	Ira J. Keath.
Freeland	Luzerne	1,970	10	66.4	.....	87	18	40	22†	28	2.86	.....	0.98	0	11	15	8	8	nw.	Theo. Reichmann.
George School	Bucks	190	18	71.4	.....	93	26	43	29	38	1.20	-3.40	0.34	0	6	25	3	3	s.	Prof. N. W. Swayne
Gettysburg	Adams	600	51	72.2	+0.5	96	31	46	22	40	1.63	-2.44	0.57	0	7	14	12	5	sw.	Col. E. B. Cope.
Gordon	Schuylkill	840	21	67.0	-1.2	88	31	38	22	39	2.34	-2.43	0.82	0	7	21	7	3	w.	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875	1	68.6	.....	81	19	38	28	33	3.08	-2.10	1.20	0	8	21	6	4	w.	Gustav Holtz.
Hamburg	Berks	535	32	68.4	-3.3	91	31	43	22†	44	3.39	-1.97	1.10	0	6	24	6	1	w.	State Sanatorium.
Hanover	York	600	21	72.2*	-1.4	94	31	48*	22	31*	1.95	-2.83	0.64	0	8	24	5	2	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	55	72.0	-0.6	91	31	51	28	27	4.22	-0.03	2.87	0	6	11	12	8	ne.	U. S. Weather Bureau.
Hawley	Wayne	900	6	68.0	.....	90	31	36	28	45	2.79	.....	0.96	0	11	18	11	2	w.	J. S. Pennell.
Holtwood	Lancaster	200	10	72.0	.....	91	10	50	28	29	2.40	.....	1.10	0	7	16	3	12	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	37	69.6	-1.1	92	30†	40	28	42	0.97	-3.12	0.26	0	8	22	4	5	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	.....	69.8	.....	93	10†	40	22	46	0.94	.....	0.45	0	8	12	13	6	.....	John S. Madore.
Jersey Shore	Lycoming	570	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Kennett Square	Chester	340	53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster	Lancaster	255	37	72.0	-0.7	94	26†	42	28	44	2.75	-1.28	1.10	0	5	25	5	1	s.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	27	68.2	+0.1	89	10†	40	22†	41	2.40	-1.40	0.74	0	8	22	6	3	.....	C. P. Darling.
Lebanon	Lebanon	469	84	71.0	-1.0	92	31	46	22	37	1.78	-2.83	0.70	0	6	22	7	2	sw.	S. B. Benzing.
Lewisburg	Union	450	50	71.2	+2.3	94	10†	41	28	41	1.46	-3.21	0.60	0	8	19	10	2	w.	Prof. W. G. Owens.
Lock Haven	Clinton	580	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles Dunn.
Lykens	Dauphin	680	10	68.7	.....	92	26†	38	28	41	1.54	.....	0.55	0	5	24	5	2	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	34	66.8*	-3.5	90*	10	40	22†	34*	1.89	-3.08	0.91	0	7	21	6	4	w.	R. K. Wintermute.
Millintown	Juniata	445	21	70.1	-0.5	92	31	41	24	43	2.10	-2.42	1.25	0	7	19	7	5	w.	Wellington Smith.
Montrose	Susquehanna	1,720	22	65.4	-1.5	86	26†	41	28	36	2.85	-1.36	1.40	0	6	22	4	5	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	13	66.2	.....	87	25†	39	22†	38	3.88	-1.36	1.61	0	8	22	6	3	w.	A. H. Boatman.
Narberth	Montgomery	300	6	71.6	.....	91	26	48	28†	34	1.70	.....	0.66	0	6	18	7	6	sw.	Charles Decker.
Neshaminy Falls†	Bucks	60	36	70.4	.....	92	26†	43	29	42	3.34	.....	1.35	0	9	25	3	3	w.	North Springfield Water Co.
Palmerton	Carbon	398	8	70.4	.....	92	24†	43	28	41	0.95	.....	0.44	0	6	18	10	3	ne.	F. G. Breyer.
Philadelphia (a)	Philadelphia	114	54	74.8	0.0	92	26	54	28	26	2.01	-2.60	1.09	0	7	15	10	6	sw.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	9	74.2	.....	92	26	53	29	28	3.17	.....	1.45	0	10	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	.....	74.3	.....	91	26	55	22	27	1.54	.....	0.52	0	8	16	6	9	sw.	Atlantic Refining Co.
Philadelphia-Gtn	Philadelphia	113	.....	74.8	.....	92	10†	54	22†	27	2.03	.....	0.73	0	6	20	7	4	.....	Julius Bernstein.
Phoenixville	Chester	100	14	71.6	.....	93	31	44	28	37	2.64	.....	0.81	0	8	25	5	1	n.	North Springfield Water Co.
Quakertown	Bucks	496	40	69.6	+2.4	91	31	40	29	45	2.03	-2.26	0.80	0	6	23	7	1	sw.	John E. Benner.
Reading	Berks	325	55	72.2	-0.2	92	31	51	29	29	1.86	-2.62	0.89	0	7	18	8	5	sw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	30	69.0	-0.8	89	26	45	22	34	1.35	-2.90	0.50	0	10	13	11	7	n.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	35	70.2	-1.3	91	25†	41	28	39	2.74	-1.66	2.15	0	5	14	13	4	nw.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	29	73.0	.....	88	8†	50	28†	28	1.69	-3.44	0.62	0	5	18	7	6	nw.	W. S. Guiles.
State College	Center	1,217	40	68.2	-0.5	89	31	43	22†	33	1.13	-2.65	0.29	0	8	10	17	4	sw.	C. A. Kern.
Towanda	Bradford	754	30	67.4	-1.1	89	13	41	28	37	2.23	-1.47	0.78	0	5	22	3	6	n.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	59	63.4	-3.0	86	16	34	28	41	1.48	-2.23	0.45	0	8	22	2	7	w.	George W. Hill.
West Chester	Chester	455	87	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Arthur M. Hay.
Williamsport	Lycoming	521	38	70.8	+0.1	92	26	43	28	37	1.43	-3.18	0.54	0	8	22	6	3	nw.	George A. Beck.
York	York	400	37	71.0	-1.6	94	31	41	28	37	1.80	-2.49	0.68	0	6	21	8	2	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam†	Beaver	700	32	72.0	.....	94	30	48	22	35	2.79	-0.99	1.35	0	10	8	14	9	sw.	U. S. Engineer.
Bradford	McKean	1,427	10	.....	.....	91*	30	.....	.....	.....	5.14	.....	1.85	0	8	16	8	7	sw.	City Engineer.
Bradys Bend†	Armstrong	930	7	63.8	.....	88	19†	34	28	45	3.32	.....	1.45	0	11	21	9	1	.....	Edward R. Dewey.
Brookville	Jefferson	1,173	34	65.6*	-0.9	97*	31	33*	22	54*	0.94	-3.19	0.59	0	4	24	7	0	.....	John Fawcett.
Claysville	Washington	1,150	21	71.2	-0.3	94	30	41	22	43	2.09	-1.24	0.55	0	8	22	4	5	s.	J. L. Melvin.
Corry	Erie	1,430	13	67.0	.....	91	30	39	22	40	3.51	.....	2.49	0						

Continued oo page 39

[illegible]

Daily Precipitation for August, 1925—Continued from page 38

Stations	Drainage Basin	Day of month																														Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	
Ohio Drainage.																																		
Beaver Dam|||	Ohio.	.30	T.	.03			1.35	.10	.04			.12		.31	.02					.04		.48												2.79
Beaver Falls|||	Beaver.	.28					.31					.31		.16	.47					.20		.24							T.				1.97	
Bradford	Allegheny.	.91			1.34	T.	.14		.13	.60			T.	1.85	.01							.16							T.				5.14	
Bradys Bend	do.	.27		.19			1.42	.03			.67	.55		.11	.02					.04	.01	.01							T.				8.32	
Brookville	do.					T.	T.				.20		.05	.59								.10							T.				0.94	
Clarion	do.																																	
Claysville	Ohio.						.13				.42	.19	.01	.28	.45						.55	.06							T.				2.09	
Cloe	Allegheny.	T.							.38	.13			T.	.67	.38				.78	T.	.06	.20											2.22	
Clymer	Conemaugh.											.26		.35	.38					.47	.03	.11											1.60	
Colegrove|||	Allegheny.																																	
Confluence|||	Youghiogheny	.75			.03			.05				.82	.08	.15	.08							.15	.13										2.24	
Coraopolis|||	Ohio.	.46				.02	.02		.01			.65	T.	.90	.05							.48											2.59	
Corry	Allegheny..	.19			T.	.06	.14			.51			.06	2.43				T.		.01		.11							T.				3.51	
Coudersport	do					.40			.82				.25	1.00								.24											2.71	
Creekside	Allegheny.	.01			T.				.25					.34							*	.21											0.81	
Derry	Conemaugh.	.07		.08		.05	.02		.02	.11			.06	.87	.86						.03	.34							.03				2.54	
Ebensburg	Conemaugh.	.05							.10	.15		.15		.05	.70					.83		.37											2.25	
Elk Lick	Youghiogheny						.05		.15	.55	.28	.20									.25	.30											1.78	
Falls Creek	Allegheny								.31	.06			.08	.22								.15											0.82	
Franklin|||	Allegheny.	.17	.04			.80	.13		.05	.06		.41		.03	.82							.40											2.91	
Freeport|||	Allegheny.	.20				1.13				.07				.26	.97																		2.63	
Greensburg	Youghiogheny	.04	.02		.75	T.	.49	.05		.04	.53		.09	.29	.25				T.		.26	.42							T.				3.23	
Greenville	Beaver			.42	.39				.01		.02	.03		1.45	.19				.02		1.10								T.				3.63	
Grove City	Beaver.	.02		T.	.06		.30			.05	.59	.01	.13	.01	.28						T.	.11							T.				1.56	
Herr's Isl. Dam|||	Ohio.	.15	T.	T.	.01		.05	T.	T.			.58		.15	.13					T.	.01	.38							T.				1.46	
Indiana	Conemaugh.	.05				.04					.55			.98	.30					.03	.05	.04											2.04	
Ingram	Ohio.	T.	.03	.01		.07	.02			.78		.08	.10	.15								.03	.21						T.				1.48	
Irwin	Youghiogheny	.01				T.	.57	.10			.37		.04	.18	.09							.08	.20										1.64	
Johnstown	Conemaugh.	.01				.02	T.	.02	.02	.06		.12	.17	.41					.32	.65	.08	.39											2.27	
Ketur	Allegheny.	.09					.03	.06	.08					.40	.08						.03		.68										1.45	
Kregar|||	Youghiogheny.	.46	.03			.01		.37	.02	T.		.76		.03	.10						T.	.41	.09										2.30	
Linesville|||	Beaver	.22			*	.95	.05		.26	T.				1.14	.04							.65									.02		3.33	
Lock No. 4|||	Monongahela.	.08				.06	.02		T.		.38	T.	.10	.52							.23	.27											1.66	
Lycippus	Conemaugh.	T.	T.		.88		.32		.66	T.	.09										.85	.40											3.20	
Martin	Monongahela.	.15		.02	.02		.13	.08	.03	.01	.67	.04	.17	.18	.08					T.	T.	.28	.06										1.92	
New Castle|||	Beaver			.04		.20	.09	.02	.02					.50						.03		.15											1.05	
Newell	Monongahela.				.32		.37							.75							T.	.28											1.72	
Parkers Landing|||	Allegheny.	.32		.40		1.40	.03	T.	T.		.30		.30	.54							T.	.20							T.				3.49	
Pennline|||	Beaver	.05	T.			.30			.21				1.49								.55										.05		2.65	
Pittsburgh***	Ohio.	T.	T.	T.		T.	T.			.50		.04	.18								.01	.23							T.				0.96	
Ridgway†	Allegheny.																																	
Saltsburg|||	Conemaugh.	.44		.02	.45		.12	.05						.59	.09							.08	.06							1.00			1.90	
Saegerstown	Allegheny.	.06			.01	.27	.32			.20			.50	1.00								.50									.05		2.91	
Sharon|||	Beaver	.15				.28	T.				.04		T.								.18												0.65	
Somerset	Youghiogheny			.20						.20	.40	.42	.20		.25				.90		.80							.40		.20			3.97	
Springdale|||	Allegheny.	.22		.01		.22	.74			.15		.63	.17								.24												2.38	
Uniontown	Monongahela.	.10			.04	.35	T.	T.	T.	.02	.21	.15	.25	T.	.01				T.		.05	.25							T.				1.43	
Unity Reservoir††	Youghiogheny	.11			.12		.32	.07		.77			.08	.20							.52	.22											2.41	
Vandergrift.	Conemaugh.	.05				.45				.70		.45	1.30								.30									.05			3.30	
Warren	Allegheny.	.10				.16	1.16		.35				2.22								.20								.01				4.20	
Washington	Ohio.																																	
Waynesburg|||	Monongahela.																																	
Westford|||	Beaver					.73			.20				.20	T.							.40												1.53	
West Newton|||	Youghiogheny	.09				.34			T.		.18	T.	.13	.29							.24	.62							T.	T.			1.89	
Zelienople	Ohio.			.25		.18		.54	.32	.01		.09	.09		.80						.21												2.49	
Lake Drainage.																																		
Erie***	Lake Erie.....	.25				T.			.35	.66	T.		.27	.80				T.			.06	.02							T.				2.41	
West Bingham	Genesee.....				.25		.04		.09	.40	.03			.52	.03																		1.36	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. †† Post Office address:—Greensburg. † Daily amounts inconsistent.

Daily Temperatures for August, 1925

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	77	82	85	87	72	72	84	82	83	88	86	82	81	88	85	89	89	88	89	87	69	75	80	86	89	91	76	79	80	85	93	83.2
	Minimum	61	56	57	62	61	64	58	60	65	67	67	58	63	64	61	60	63	64	64	67	58	49	49	52	58	62	58	49	56	51	60	59.5
Altoona.....	Maximum	67	74	81	80	70	80	84	84	77	87	81	73	83	79	82	83	85	86	86	77	70	75	77	80	85	85	77	74	80	88	88	79.9
	Minimum	50	50	55	56	57	59	57	60	64	61	62	54	60	66	54	55	54	59	62	66	59	42	45	47	53	55	56	41	48	52	65	55.6
Beaver Dam.....	Maximum	72	77	84	83	82	84	88	82	88	93	85	82	85	85	84	88	89	89	90	89	75	77	81	84	88	90	79	81	88	94	93	84.8
	Minimum	55	52	55	57	59	57	61	65	68	67	61	60	69	67	58	60	61	63	66	67	61	48	50	52	53	55	57	51	54	59	66	59.2
Bradford.....	Maximum	61	80	83	80	82	80	85	82	69	87	76	78	80	76	85	90	86	86	83	71	79	.....	.....	.....	89	83	75	77	84	91	85	80.8 ^a
	Minimum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bradys Bend.....	Maximum	68	75	81	77	77	77	84	81	81	80	81	81	83	83	85	85	82	79	88	88	69	73	83	82	74	74	78	79	84	87	87	80.2
	Minimum	45	38	44	50	50	51	53	56	49	50	50	46	57	58	48	51	50	53	57	57	54	35	39	39	40	41	38	34	39	47	54	47.5
Brookville.....	Maximum	68	76	81	82	79	81	85	80	77	88	80	79	85	79	85	86	88	89	89	81	71	78	88	.....	88	75	78	85	91	97	82.4 ^b	
	Minimum	47	43	49	50	54	53	54	58	58	54	48	47	62	53	58	49	50	57	58	40	33	38	.....	.....	38	41	36	40	50	43	48.8 ^b	
Carlisle.....	Maximum	74	83	85	85	80	79	88	89	86	92	89	82	89	86	85	80	89	90	92	90	80	77	83	86	90	95	85	78	79	88	94	85.7
	Minimum	56	55	57	62	65	66	64	63	62	66	65	65	64	68	61	60	61	65	64	67	63	48	48	48	55	57	62	47	52	55	51	59.4
Catawissa.....	Maximum	78	85	88	85	75	77	86	88	83	93	89	83	86	89	91	90	93	90	94	94	72	77	85	88	91	93	79	79	82	87	91	85.8
	Minimum	56	52	53	56	62	61	58	57	61	63	61	52	62	66	65	55	60	58	58	63	60	42	44	50	53	52	52	41	45	48	49	55.3
Chambersburg.....	Maximum	70	80	83	84	78	82	85	90	88	92	90	84	90	88	81	84	89	89	92	89	73	78	81	85	87	91	86	78	76	89	92	84.6
	Minimum	55	52	53	61	64	63	57	61	68	64	62	62	63	68	58	58	58	57	63	64	63	46	47	49	52	54	63	49	49	50	60	57.8
Claysville.....	Maximum	72	81	86	84	83	85	90	83	85	90	86	82	87	83	89	87	89	87	92	83	75	77	84	83	89	91	85	82	90	94	86	85.2
	Minimum	45	49	50	55	56	53	58	64	67	58	59	62	68	67	63	62	65	63	62	66	60	41	45	47	46	51	54	49	56	62	64	57.3
Clearfield.....	Maximum	71	84	89	85	78	85	90	86	87	89	86	87	89	91	88	90	93	91	90	87	77	68	85	86	95	92	82	83	88	95	93	86.5
	Minimum	51	48	53	55	58	61	57	59	66	60	55	50	63	56	59	60	56	62	60	58	39	46	53	68	51	52	39	43	52	56	54.6	
Coatesville.....	Maximum	75	80	84	86	73	80	83	88	85	88	86	79	85	87	83	87	88	86	87	84	71	74	79	83	87	88	76	73	78	82	80	82.4
	Minimum	63	55	56	62	66	65	59	60	66	64	68	59	65	71	63	59	59	59	60	59	68	57	44	43	52	55	59	58	43	48	60	58.3
Corry.....	Maximum	65	72	79	83	78	79	84	78	73	86	78	75	79	76	82	86	87	84	84	80	71	75	82	84	87	81	75	78	86	91	83	80.0
	Minimum	50	47	48	52	57	57	52	53	66	58	58	50	62	63	52	54	56	61	64	61	57	39	43	46	47	64	51	40	46	55	65	54.1
Emporium.....	Maximum	68	75	78	80	76	79	81	75	75	84	78	74	82	79	80	81	83	85	79	67	72	77	79	82	83	70	71	78	85	83	78.1	
	Minimum	52	51	54	55	59	60	54	60	64	59	58	52	65	64	56	57	55	56	64	62	51	41	45	48	50	53	48	36	40	52	61	54.3
Erle.....	Maximum	68	73	78	77	79	78	83	83	76	83	75	78	75	74	80	85	89	86	83	78	69	71	80	83	82	79	66	71	81	90	82	78.5
	Minimum	54	58	60	63	64	61	63	69	68	68	65	69	66	66	61	66	69	71	70	65	56	51	58	60	62	63	53	53	58	66	66	62.3
Franklinss.....	Maximum	72	80	83	83	83	84	89	83	88	82	81	86	80	87	88	89	84	90	80	72	79	84	88	92	86	78	81	87	94	87	84.0	
	Minimum	54	48	50	51	56	58	58	61	62	58	55	53	56	64	56	56	57	61	64	59	43	40	48	49	49	51	42	42	51	62	54.1	
Gettysburg.....	Maximum	74	84	86	88	79	83	88	92	91	95	91	76	89	87	87	92	90	94	85	75	78	83	88	90	93	81	80	81	87	96	86.3	
	Minimum	56	53	55	60	63	63	58	60	68	67	64	62	61	64	60	58	59	56	64	65	64	46	46	49	53	53	62	48	47	48	63	58.2
Greensburg.....	Maximum	71	76	82	82	80	82	79	81	88	82	81	84	80	82	88	88	87	87	87	81	73	76	80	83	86	87	80	80	86	90	86	82.2
	Minimum	53	50	53	57	59	57	58	62	61	60	68	68	68	68	68	68	62	66	67	60	43	49	50	51	54	56	47	56	60	66	58.0	
Grove City.....	Maximum	69	79	81	81	81	81	85	84	82	88	80	79	82	82	82	85	88	87	88	82	71	74	78	85	87	85	85	80	84	90	85	82.3
	Minimum	54	47	51	55	56	59	62	66	66	58	57	55	66	64	53	57	62	64	64	66	59	41	46	48	49	53	57	48	53	61	49	56.3
Hamburg.....	Maximum	80	78	82	84	74	81	82	83	84	82	84	84	80	85	84	86	86	86	86	82	71	74	76	83	86	89	75	73	77	82	91	82.6
	Minimum	56	52	56	57	58	56	58	61	60	54	56	56	60	58	61	57	56	62	61	53	45	48	43	53	59	43	47	47	54	54	54.1	
Harrisburg.....	Maximum	73	81	82	84	73	80	84	86	86	89	86	77	86	85	83	87	86	86	88	82	71	74	76	83	86	89	75	73	77	82	91	82.0
	Minimum	61	58	60	63	66	66	62	67	69	69	62	64	71	66	63	65	63	66	70	60	53	52	56	59	62	60	51	55	56	65	62.1	
Hawley.....	Maximum	74	80	84	84	72	70	81	83	75	87	85	83	75	82	84	87	89	87	89	82	74	74	80	85	89	87	79	74	79	86	90	81.6
	Minimum	57	54	52	52	57	61	55	51	66	66	61	50	60	64	53	52	65	70	57	57	38	39	45	49	50	68	36	39	41	54	54.5	
Huntingdon.....	Maximum	71	79	82	82	79	83	85	86	81	91	85	78	89	84	85	91	89	91	90	82	75	77	83	86	89	91	78	78	80	92	84.0	
	Minimum	54	47	53	59	61	64	58	61	67	59	58	54	63	65	55	55	56	55	63	61	41	45	46	48	50	56	40	43	50	58	55.1	
Indiana.....	Maximum	72	70	72	84	81	83	85	80	79	87	85	80	83	81	87	85	88	87	85	85	79	80	84	88	91	81	78	85	91	89	82.9	
	Minimum	51	50	46	50	59	57	55	60	66	60	57	56	61	63	52	53	58	58	64	56	40	47	46	51	50	56	45	55	60	61	54.8	
Johnstown.....	Maximum	69	78	85	85	81	84	85	81	83	91	85	77	89	82	85	91	92	92	89	77	76	80	85	89	88	90	83	82	88	94	89	84.8
	Minimum	53	49	54	58	59	60	57	61	66	65	59	62	64	68	58	57	56															

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXX. SEPTEMBER, 1925. No. 9

GENERAL SUMMARY.

The temperature averaged well above the seasonal normal in all parts of the State. The month opened with a moderate daily excess, which continued during the first two weeks and culminated with maxima close to, and at some stations exceeding, the September record, on the 11th and 12th. A cool period of relatively short duration occurred over the entire State during the third week, and heavy to killing frosts formed at many of the eastern and northern stations on the 23d and 26th. Contrasting sharply with September of last year, which was the wettest since State-wide records were begun in 1888, September of 1925 averaged nearly three-fifths of an inch below normal in precipitation. Although the rains were of fairly frequent occurrence the amounts were generally deficient and in some sections, particularly from Juniata county westward, moderate drought conditions obtained during the month. Streams were very low, pastures were seriously affected, and in some towns in this section of the State an acute water shortage threatened. The frosts during the latter part of the month did little or no damage to farm products. At the end of the month potato digging was well under way, considerable corn had been cut and stored for ensilage and farm operations were generally reported as progressing at a normal rate for the season. A severe electrical storm visited Freeland, Luzerne county, on the 13th. During this storm the wind attained an estimated maximum velocity of 60 miles per hour and huge trees were uprooted, chimneys blown down, and other damage done by the lightning and wind. This storm was apparently local in scope, as no other reports of serious damage were received from this vicinity. No serious hail damage was reported during the month. F. H. A.

TEMPERATURE.

The mean temperature for the State, as determined from the records of 81 stations, was 67.5°, or 3.9° above the normal for September. The highest mean was 71.8°, at Newell, and the lowest, 59.4°, at Gouldsboro. The highest temperature for the month, 99°, was recorded at two stations, Clearfield and Huntingdon, on the 11th and 12th respectively. The lowest for the month, 24°, occurred at West Bingham, on the 23d. The greatest daily range in temperature was 48°, at Brookville, on the 1st.

PRECIPITATION.

The average precipitation for the State, as shown by reports from 133 stations, was 2.80 inches, a deficiency of 0.59 inch, as compared with the September normal. The greatest monthly amount was 7.63 inches, at Penn Line, while the least, 0.86 inch, occurred at Huntingdon. The greatest amount recorded in any 24 consecutive hours was 3.11 inches, at Pleasant Mount, on the 12-13th. Snow was reported from but one station, Freeland, where a trace fell on the 30th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Total move- ment, in miles	Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Velocity, in miles per hour			
				8 a m	8 p m		Average	*Highest	Direction	Date
Erie.....	129.9	374.3	35	82	78	8,820	12.2	43	w.	20
Harrisburg.....	259.6	373.5	70	75	64	4,155	5.8	31	sw.	13
Philadelphia.....	237.8	373.5	64	72	65	6,354	8.8	24	s.	20
Pittsburgh.....	202.6	374.0	54	80	64	6,584	9.1	37	nw.	20
Reading.....	164.0	373.5	44	79	74	3,849	5.3	26	se.	15
Scranton.....	155.2	374.0	41	92	85	4,166	5.8	50	n.	13

*For any five-minute period.

COMPARATIVE DATA FOR SEPTEMBER

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	59.6	.....	.....	4.84	.....	.....	.....	.....	.....
1889.....	61.9	.....	.....	5.05	.....	.....	.....	.....	.....
1890.....	62.2	91	25	4.57	8.54	2.05	10	9	11
1891.....	66.6	94	32	2.39	5.00	1.05	17	8	5
1892.....	62.4	90	29	2.81	4.85	1.18	16	7	7
1893.....	61.2	90	26	2.67	5.59	0.72	9	12	9
1894.....	66.6	95	24	6.30	12.36	2.82	10	10	10
1895.....	67.8	100	24	1.71	5.41	0.37	16	9	5
1896.....	63.6	98	26	4.82	8.57	1.73	13	8	9
1897.....	63.8	100	24	2.18	4.21	0.25	18	7	5
1898.....	66.0	100	25	1.70	3.95	0.38	16	8	6
1899.....	61.8	93	23	4.70	9.31	2.03	12	9	9
1900.....	68.4	100	27	1.77	6.90	0.48	13	10	7
1901.....	63.6	95	29	3.39	6.61	1.64	14	7	9
1902.....	62.7	99	28	4.66	11.95	1.50	12	8	10
1903.....	63.2	94	27	2.09	3.88	0.91	17	8	5
1904.....	63.7	95	21	3.37	7.40	0.82	13	10	7
1905.....	64.0	95	27	3.41	7.30	1.70	15	9	6
1906.....	67.0	99	30	2.46	6.57	0.36	15	9	6
1907.....	64.8	95	29	6.37	11.86	2.18	8	10	12
1908.....	65.6	99	26	1.60	4.06	0.51	17	9	4
1909.....	62.8	96	26	2.27	4.90	0.64	15	9	6
1910.....	65.5	95	32	4.49	8.45	2.26	13	8	9
1911.....	64.9	92	26	5.29	10.18	1.85	13	9	8
1912.....	65.5	95	25	5.57	11.43	2.47	12	7	11
1913.....	62.4	97	24	3.28	8.43	1.24	13	7	10
1914.....	61.5	98	21	0.99	2.67	0.03	18	7	5
1915.....	66.5	96	25	2.56	6.96	0.45	16	9	5
1916.....	62.5	98	23	3.77	8.18	0.91	17	8	5
1917.....	59.0	91	25	2.31	6.34	0.00	16	9	5
1918.....	58.7	88	28	3.97	7.52	1.82	12	8	10
1919.....	64.4	96	28	2.07	4.09	0.46	16	8	6
1920.....	64.5	91	24	3.99	9.40	0.97	16	8	6
1921.....	68.9	98	31	4.68	11.48	1.47	13	9	8
1922.....	66.3	100	22	1.48	3.73	0.17	19	7	4
1923.....	64.8	92	22	3.55	8.68	1.54	13	10	7
1924.....	59.8	99	26	6.44	11.72	3.46	11	7	12
1925.....	67.5	99	24	2.80	7.63	0.86	11	12	7

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	2.8	6.3	15	1.5	3	18
Phillipsburg.....	Delaware.....	1.8	4.9	16	0.3	2	22
Mauch Chunk.....	Lehigh.....	3.5	3.6	7	3.4	5	12
Wilkes-Barre.....	Susquehanna.....	3.7	6.9	17	2.3	6	20
Williamsport.....	Susquehanna.....	0.3	0.8	16	0.1	1	20
Harrisburg.....	Susquehanna.....	3.5	4.4	18	3.2	1	17
Freeport.....	Allegheny.....	1.6	3.5	24	0.9	6	22
West Newton.....	Youghiogheny.....	0.1	0.2	21	0.1	5	20
Lock No. 4.....	Monongahela.....	12.5	12.5	12	12.4	1	31
Pittsburgh.....	Ohio.....	6.9	7.5	19	6.6	8	22
Beaver Dam.....	Ohio.....	7.4	8.1	24	6.5	28	30

Climatological Data for September, 1925

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 01 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	13	67.5	.....	90	13	38	26	32	4.12	+0.77	1.33	0	8	12	18	0	n.	John A. Frick.
Altoona.....	Blair.....	1,615	38	66.7	+4.0	92	11†	37	26	35	1.74	-1.04	0.49	0	10	17	101	3	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	295	41	69.0	+2.8	90	5	39	26	32	3.26	-0.13	1.06	0	5	2	27	1	nw.	Rev. R. H. Brennecke, Jr.
Biglerville.....	Adams.....	652	3	69.9	.....	94	4†	36	26	36	2.12	.....	1.03	0	6	16	9	5	w.	R. C. Walton.
Bustleton.....	Philadelphia.....	125	6	70.0	.....	93	1	42	26	38	2.49	.....	0.65	0	7	9	7	14	w.	Experiment Station.
Carlisle.....	Cumberland.....	467	58	71.5	+6.8	98	12	37	26	38	0.89	-2.73	0.33	0	5	19	6	5	ne.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	28	67.0	+3.5	95	12	32	26	40	2.58	-0.82	0.78	0	9	19	8	3	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	25	71.2	+5.3	96	4†	39	26	40	2.57	-0.17	1.41	0	7	14	10	6	s.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	15	68.0	+4.8	99	11	35	23†	45	2.43	-1.35	0.50	0	10	7	19	4	ne.	E. W. Hess.
Coatesville.....	Chester.....	380	37	67.8	+1.7	91	12†	31	26	41	1.92	-1.98	0.49	0	8	7	18	5	n.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	15	67.4	.....	91	12	35	26	35	3.97	+0.55	2.57	0	10	12	6	12	n.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	37	63.7	+2.3	88	10	31	23†	36	3.74	+0.30	1.29	0	9	11	14	5	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	24	68.8	+3.3	90	12	37	26	33	2.54	-0.94	1.28	0	7	11	11	8	n.	Ira J. Keath.
Freeland.....	Luzerne.....	1,970	10	60.7	.....	88	11	32	23	26	4.29	.....	1.95	T.	10	7	15	8	se.	Theo. Reichmann.
George School.....	Bucks.....	190	18	69.1	+4.2	91	13	38	26	37	3.56	+0.54	1.17	0	6	15	12	3	n.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	600	51	70.7	+5.7	96	12	36	26	39	2.21	-1.16	0.76	0	9	6	18	6	nw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	21	65.4	+3.6	89	12	30	23	39	2.38	-2.08	0.58	0	8	14	11	5	w.	Capt. J. G. Johnson.
Gouldsboro.....	Wayne.....	1,875	1	59.4	.....	85	11	30	23†	31	2.48	-0.84	0.62	0	12	8	12	10	sw.	Gustav Holtz.
Hamburg.....	Berks.....	535	32	65.4	-0.1	89	11	33	26	38	2.89	-1.31	1.03	0	5	17	9	4	sw.	State Sanatorium.
Hanover.....	York.....	600	21	71.2	+4.0	95	12	39	26	32	1.94	-0.91	0.73	0	8	19	7	4	s.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	55	69.7	+3.9	94	12	43	26	27	1.92	-0.93	0.95	0	7	5	17	8	ne.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	6	62.5	.....	91	11†	27	26	41	3.49	.....	1.28	0	6	10	17	3	w.	J. S. Pennell.
Holtwood.....	Lancaster.....	200	10	69.4	.....	88	11†	46	26	25	1.96	.....	0.76	0	5	8	7	15	.....	H. W. Lowy, C. E.
Huntingdon.....	Huntingdon.....	650	37	69.0	+4.7	99	12	32	26	44	0.86	-2.56	0.25	0	9	14	12	4	w.	Prof. W. J. Swigart.
Hyndman.....	Bedford.....	977	.....	70.0	.....	94	5†	34	26	45	1.12	.....	0.55	0	7	2	17	11	.....	John S. Madore.
Jersey Shore.....	Lycoming.....	570	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster.....	Lancaster.....	255	37	70.0	+5.5	92	4	34	26	43	1.98	-1.36	0.85	0	5	24	6	0	s.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	27	64.0	+2.7	90	12	30	23	40	3.28	+0.25	0.55	0	12	13	12	5	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	84	69.1	+3.9	93	12	38	26	37	2.81	-0.37	1.48	0	4	15	11	4	nw.	S. B. Benzing.
Lewisburg.....	Union.....	450	50	68.6	+6.6	97	12	33	26	42	2.84	-0.69	1.17	0	10	11	14	5	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	580	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles Dunn.
Lykens.....	Dauphin.....	680	10	68.0	.....	94	12	29	26	43	1.77	.....	0.65	0	8	16	11	3	nw.	Susquehanna Collieries Co.
Mauch Chnuk.....	Carbon.....	600	34	65.8	+1.8	89	5	30	26	40	3.00	-0.87	1.22	0	9	7	10	13	w.	R. K. Wintermute.
Millintown.....	Juniata.....	445	21	69.2	+5.4	97	12	34	26	38	1.73	-2.06	1.01	0	9	13	9	8	nw.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	22	61.7	+1.6	85	12	31	23	32	4.45	+0.53	0.98	0	9	15	6	9	s.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,658	22	61.0	+2.9	84	11	28	26	36	1.21	-3.68	0.80	0	5	8	12	10	nw.	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	13	63.0	.....	90	12	30	26	36	4.86	+1.38	1.50	0	11	16	12	2	w.	A. H. Boatman.
Narberth.....	Montgomery.....	300	6	68.9	.....	90	13	41	26	31	3.07	.....	1.04	0	6	8	12	10	ne.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	36	67.3	.....	92	13	39	26	37	3.07	.....	1.00	0	6	14	11	5	w.	North Springfield Water Co.
Palmerston.....	Carbon.....	398	8	64.4	.....	89†	13	31†	26	37	3.56	.....	1.16	0	9	13	10	7	ne.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	114	54	71.2	+3.2	91	13	48	23	23	1.89	-1.49	0.86	0	7	5	16	9	n.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	9	70.9	.....	92	13	47	26	30	2.90	.....	2.00	0	5	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze.....	Philadelphia.....	90	.....	71.2	.....	92	13	50	23†	24	1.81	.....	0.94	0	6	6	11	13	.....	Atlantic Refining Co.
Philadelphia-Gtn.....	Philadelphia.....	113	.....	71.6	.....	92	13	48	26	24	2.48	.....	0.97	0	6	12	13	5	.....	Julius Bernstein.
Phoenixville.....	Chester.....	100	14	68.7	.....	93	1	35	26	40	1.78	.....	1.01	0	3	25	5	0	n.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	40	66.6	+3.0	89	1†	31	26	39	3.11	-0.55	1.18	0	8	12	12	6	nw.	John E. Benner.
Reading.....	Berks.....	325	55	69.4	+3.1	92	12	40	26	30	2.53	-1.12	1.20	0	7	9	10	11	se.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	30	64.2	+1.3	89	12	34	23	34	2.26	-0.60	0.92	0	11	5	11	14	n.	U. S. Weather Bureau.
Sellingsgrove.....	Snyder.....	455	35	68.6	+4.2	94	12	34	26	40	2.72	-0.94	0.70	0	12	13	10	7	nw.	Dr. George E. Fisher.
Shawmont.....	Philadelphia.....	51	29	70.8	.....	90	13†	43	26	32	2.65	-0.58	0.99	0	6	10	12	8	.....	W. S. Gules.
State College.....	Center.....	1,217	40	66.8	+4.4	93	12	35	26	34	1.51	-1.55	0.54	0	11	15	11	4	sw.	C. A. Kern.
Towanda.....	Bradford.....	754	30	63.8	+1.8	90	12	31	23	36	4.35	+1.32	1.44	0	13	8	10	12	e.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	59	.....	.....	.....	.....	26	26	.....	2.54	-0.67	1.00	0	9	16	6	8	w.	George W. Hill.
West Chester.....	Chester.....	455	87	68.0	+2.7	91	13	41	26	31	1.53	-2.39	0.83	0	7	13	11	6	nw.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	38	68.2	+4.3	94	12	34	18	43	4.75	+1.54	1.71	0	8	18	6	6	nw.	George A. Beck.
York.....	York.....	400	37	70.2	+4.6	94	11†	33	26	41	1.79	-1.54	0.76	0	6	13	14	3	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam†.....	Beaver.....	700	32	70.1	.....	95	11	44	22	37	5.14	+1.93	0.97	0	12	5	10	15	.....	U. S. Engineer.
Bradford.....	McKean.....	1,427	10	63.6†	.....	92†	11	30†	23	42†	4.77	.....	1.31	0	14	7	13	10	w.	City Engineer.
Bradys Bend†.....	Armstrong.....	930	7	61.8	.....	92	11	30	22†	45	2.86	.....	1.19	0	12	13	12	5	.....	Edward W. Dewey.
Brookville.....	Jefferson.....	1,173	34	63.0	+3.3	93	11	31	23†	48	2.71	-0.61	0.95	0	7	23	6	1	.....	John Fawcett.
Claysville.....	Washington.....	1,150	21	70.3	+5.1	98	11	43	25	44	1.10	-1.70	0.46							

Daily Precipitation for September, 1925

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh.....	.03			.01			1.33						.15	.97	T.	.95	.67		.01		T.											4.12
Altoona	Juniata.....			T.		.02								.20	.08	.40	.05		.05		.12	.49							.30	.03			1.74
Ansonia|||	W. Br. Susq.....				.04			T.	.57					.46	.73		.56			.26	.02	.27					.03			.16		T.	3.10
Baker's Summit	Juniata.....					.08	.07							.76	.08	.39					.19	.13								.24	.02		1.96
Bethlehem	Lehigh.....					.28								.35	.68		1.06	.89														3.26	
Biglerville	Susquehanna.....						.43					1.03	.34		.08	.09					.15											2.12	
Bloersville	Lower Susq.....					.20								.20		.80														.13		1.83	
Bustleton	Lower Del.....		.10			.02	.64				.01			.47		.65	.60															2.49	
Carlisle	Lower Susq.....					T.							T.	.14	.33	.28														.10		0.89	
Catawissa	N. Br. Susq.....					.37	.02						.78	.54	.02	.30	.08		.35		.12	.04										2.58	
Center Hall	Susquehanna.....																																
Chambersburg	Potomac.....					T.	1.41						T.	.76	.02	.17					.08	.06								.07		2.57	
Clearfield	W. Br. Susq.....					.06	T.						.15	.50	.10	.36	.12		.38		.42	.26			T.					T.	.08	2.43	
Coatesville	Lower Del.....		.06			.09	.33						.49	.49	.11	.32															.03	1.92	
Colebrook	Lower Susq.....					.01	.21			T.			.05	2.57	.07	.68	.30		.03		.01		T.							T.	.04	8.97	
Conshohocken	Schuylkill.....		.22	T.	.02	.56				T.	T.		.99	T.	1.32	.08															.03	3.22	
Cresson|||	Juniata.....		.03			.02							.20	.28	.26	.11					.18	.78								.28		2.14	
Doylestown	Lower Del.....		T.	T.		T.	1.17						.10	.61		1.52	.57															3.97	
Driftwood|||	W. Br. Susq.....					T.	.15				T.	.03		.46	T.		.35	.01		.72	.01	.31								.26		2.30	
Emporium	do.....					.18	.07				T.			.72	T.	.38	.14		1.29		.44	.10			T.					.42		3.74	
Ephrata	Lower Susq.....	.03				T.	.28						.33	1.28	.11	.50						.01										T.	2.54
Forest City	N. Br. Susq.....			.03	.16		1.21	.02					.59	2.41		1.08	.04				.34										.15		6.03
Freeland|||	Lehigh.....			.03		1.26				T.	T.		.62	1.95		.20	.06		.03		.06					.04					.04		4.29
George School	Lower Del.....		.32	T.		.01	.96							.36		1.17	.74	T.			.06										T.		3.56
Gettysburg	Potomac.....						.76						.44	.10	.54	.05	.10				.02	.03								.17		2.21	
Girardville|||	Susquehanna.....					T.							.51	.58	.26	.21	.38	T.	.16											.04		2.38	
Gordon	Lower Susq.....					.24							.42	.62	.05	.10	.06				.10					.06							2.48
Gouldsboro||	Lehigh.....		.05			.60	.32			.05				.82		.09																	1.30
Graterford	Schuylkill.....						.39						.24	1.03		.91																	2.89
Hamburg	Schuylkill.....				.56																									.15			2.89
Hanover	Lower Susq.....					.27							.73	.34	.05	.30					.01	.03								.21		1.94	
Harrisburg***	do.....					.08				T.			.64	.49	.61				.02		T.		T.							.02	.06		1.92
Harrisburg East	do.....					.09							.93	.60	.25	.52			.02											.08		2.49	
Harrisburg North	do.....					.09							.44	.13		.49			.02											.05		1.22	
Hawley|||	Upper Del.....					T.	1.28						.97		*	.82					.29									.13		3.49	
Holtwood||	Lower Susq.....					.11							.25	.75		.76														.09		1.96	
Huntingdon	Juniata.....					T.	.04				.02		.21		.25			.05		.01	.05									.08	.15		0.86
Hyndman	Potomac.....		.20			T.	.11						.55	.07	.08															.02	.09		1.12
Jersey Shore	W. Br. Susq.....																																
Kennett Square	Delaware.....												.64	.85	.21																		1.98
Lancaster	Lower Susq.....					.20																									.08		
Lansford|||	Lehigh.....					.93							*	1.99		.40	.19					.06									.04		3.61
Lawrenceville	N. Br. Susq.....			.05		.23	.20						.26	.48	.42	.10	.55		.37		.45				.05	T.				.12		3.28	
Lebanon	Lower Susq.....					.14							.29	1.48		.90															T.		2.81
Leola|||	W. Br. Susq.....			.10		1.23							1.52	.67	*	1.10				.20		.20								.27		5.29	
Lewisburg	do.....		T.	T.		.05	.32						T.	.73	.13	.05	1.17		.13	.03	.01	.22											2.84
Lloyd	do.....					.36	.16						.44		.64				.21						.41								2.22
Lock Haven	do.....																																
Lykens	Susquehanna.....					.03							.51	.65	.04	.38			.08	.05		.03								T.	T.		1.77
Mauch Chunk	Lehigh.....		.05			.44	.71						1.22	.06	.34	.02	.09														.03		3.00
Mifflintown	Juniata.....					T.	.03						.03	1.01		.13	.10		.25	.10		.01								T.	.07		1.73
Montrose	N. Br. Susq.....		.18			.98							.85	.98	.46	.80			.10		.05	.05			T.								4.45
Mount Pocono	Upper Del.....			.03		.80							.22		.10																.06		1.21
Mount Union|||	Juniata.....					.05							1.14	.30		.15					.08										.18		1.90
Muncy Valley	W. Br. Susq.....		.12			.14	.49						.64	1.50	.32	.40	.83		.09			.26								.07			4.86
Narberth	Lower Del.....		.73	.01		T.	.46				T.		.76	T.	1.04							T.									.07		3.07
Neshaminy|||	Lower Del.....			.05			.68						.44	.75		.67															.02		

Daily Precipitation for September, 1925—Continued from page 43

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio.....			.48				.30		.03	T.		.65	.37	.27	.17	.97			.95	.06	.58								.31			5.14	
Beaver Falls|||	Beaver.....	T.		.42				.05		.01	T.	T.	.53	.26	.38	.30	.38			.04		.42								.25			3.04	
Bradford.....	Allegheny.....					.60	T.		.02				.18	.70	.09	.38	.19	.02	.84	T.	*	1.31			.12					.32			4.77	
Bradys Bend.....	do.....			.32				.05		.03				.20	.11	.56	.63	.29			.01	.17							.01	.48			2.86	
Brookville.....	do.....						T.				.15		.10	.25		.95				.85		.20							.21			2.71		
Clarion.....	do.....																																	
Claysville.....	Ohio.....			.25				.17		.06	T.			.05	.12	.34													.01	.10			1.10	
Cloe.....	Allegheny.....					.05				.04			.34	.09		.23			.18		.53								.26				1.72	
Clymer.....	Conemaugh.....			.07				.04		.02	.04			.07	.47	.35	1.04		.05			.69								.09			2.93	
Colegrove|||	Allegheny.....																																	
Confluence|||	Youghiogheny.....			.50				.18						.20	.05	.03	.33		.13		.13								.40				2.01	
Coraopolis|||	Ohio.....			.46				.26		.01	T.			T.	.01	.21	.53			.08		.94							.08				2.58	
Corry.....	Allegheny.....			.01	T.		.24	.28	.01	T.			.33	1.95	.07	1.36	.04		.14	T.	.87				.05				.28	.01			5.64	
Coudersport.....	do.....					.48							.06	.65		.03			.02		.08				.01								1.33	
Creekside.....	Allegheny.....			.12		.05							.30	.34		.20			.07			.73							.06				1.87	
Derry.....	Conemaugh.....			.41			T.	.21						.18	.52	.67			.02			1.21							.18	.03			3.43	
Ebensburg.....	Conemaugh.....			.03			T.	.03						.63	.32	.70	.08		.02			.84							.17				2.82	
Elk Lick.....	Youghiogheny.....			.62			.12							.15	.42	.04			.25										.42				2.02	
Falls Creek.....	Allegheny.....					.40					.10			.12	.16	.49			.24		.19								.29				1.99	
Franklin|||	Allegheny.....						.08		.05	.17			.14	.92	1.14	.10	.46			.04		.86							.62				4.58	
Freeport|||	Allegheny.....			.61						.06	.02				.16	.45			.35			.75							.04				2.44	
Greensburg.....	Youghiogheny.....			.44			.21			T.	.01	T.		.30	.35	.25			T.		.40	T.							T.	.04	T.		2.00	
Greenville.....	Beaver.....			.40		.15			.03				*	2.85		.33	.13	.02			.98								.59				5.43	
Grove City.....	Beaver.....			.46			.05		.03		.07	T.	.90	T.	.58	T.		.06			.59												2.74	
Herrs Isl. Dam|||	Ohio.....	T.		.42				.15		T.	T.	T.		T.	.01	.12	.21	.02		T.		.71				T.				.03			1.67	
Indiana.....	Conemaugh.....			.26			T.			.01				.52	.90	.14	.03	.28	.04			.62							.11	.05			2.96	
Ingram.....	Ohio.....			.50			T.	.25		T.	T.			T.	.01	.43	T.		.01		.80								T.	.06			2.06	
Irwin.....	Youghiogheny.....			.48				.16						.01	.10	.29					.16								.02	.05			1.27	
Johnstown.....	Conemaugh.....			.18			.04	.07		T.		T.	.22	.15	.13	.34	.21	.03	.02	T.	.62								.12	.05			2.18	
Ketner.....	Allegheny.....					.15	.03				.03			.16	.31	.23	.19	.04		.30		.72			.05				.10	.20			2.51	
Kregar|||	Youghiogheny.....			.47	.03			.15			T.			.25	.26		.28			.08		.67							.21				2.40	
Linesville|||	Beaver.....			.22	T.			.13	.02			.09		1.47	1.53	.18	1.05				1.27								.32				6.28	
Lock No. 4|||	Monongahela.....					.41		.19			.01			.01	.24	.14	.24				.13								.14				1.51	
Lycippus.....	Conemaugh.....			.53			T.	.04						.32	.31						.10	.80							.24				2.34	
Martin.....	Monongahela.....	T.		.17				.13						.12	.08	.07	.18			.23									.23				1.21	
New Castle|||	Beaver.....			.42			.04		.04	.08			.41	.48	.13	.05	.01		.19		.53								.42				2.80	
Newell.....	Monongahela.....			.35			.22			.02				.05	.06	.08	.16												.14				1.08	
Parkers Landing|||	Allegheny.....			.12			.05			T.	.09		.22	.05	.25	.22	.50		T.	.48		.25							.30				2.53	
Pennline|||	Beaver.....			.27			*	.16			.04			1.48	1.61	.24	2.33				1.14								.36				7.63	
Pittsburgh***	Ohio.....			.40		.12				T.	T.			.01		.09	T.		T.		.63				T.				.03				1.58	
Ridgway†	Allegheny.....												.12	.60		.23	.05		.13		.33								.53				1.99	
Saltsburg|||	Conemaugh.....	T.		.48				.11			.04		.02	.07	.17	.06	.58				.28	.53							.10				2.44	
Saegertown.....	Allegheny.....					.15							.35	2.05	.05	1.28		.15	.02		.66	.03							.27	.10			5.11	
Sharon|||	Beaver.....			.46			.10		.05				.20	1.15	1.19	.05	.41			.05		.58							.42				4.66	
Somerset.....	Youghiogheny.....																																	
Springdale|||	Allegheny.....			.43			.10			T.	T.				.14	.48			.03		.73									.11				2.02
Uniontown.....	Monongahela.....			.38			.14			T.	T.		.17	.06	.29	.48	.07		.02		T.								.07	.35			2.03	
Unity Reservoir††	Youghiogheny.....			.46			.15							.15	.67	.55					.55								.09	.05			2.67	
Vandergrift.....	Conemaugh.....			.35					.10	.11				.08	.08		.15				.48								.04				1.39	
Warren.....	Allegheny.....			.02			.45		.06	.04				.86		.78		.22		.85				.02					.48				3.77	
Washington.....	Ohio.....			.24			.48		.03					.14		.23				.15									.08		T.		1.35	
Waynesburg|||	Monongahela.....																																	
Westford|||	Beaver.....			.32				.17						.95	1.16	T.	1.17				1.65									.32			5.74	
West Newton|||	Youghiogheny.....			.46			.10			T.				.41	.15	.12				T.	.77								.12				2.13	
Zelienople.....	Ohio.....			.37				.07	.03		T.		T.	.13	.25	.28	.21		.82		.39		.25						.27				3.07	
Lake Drainage.																																		
Erie***	Lake Erie.....	T.		.01			.64	T.		T.		.28	.68	2.29	.19	1.05	.09		T.		.22				T.				.28	T.			5.73	
West Bingham.....	Genesee.....					.70	.12						.07	.35	.36	.03	.06		.50		.03	.80			T.				.19	T.			3.21	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

* Precipitation included in the next following measurements

T.(trace) when precipitation is less than .01 inch.

§ Incomplete or missing.

†† Post Office address:—Greensburg.

† Daily amounts inconsistent.

Daily Temperatures for September, 1925

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Allentown.....	Maximum... 88	84	79	86	88	75	77	82	78	84	88	87	90	80	75	77	75	77	82	80	82	63	65	71	67	70	74	81	71	65	78.0	
Altoona.....	Minimum... 59	54	61	67	58	65	66	63	59	61	63	72	69	68	60	62	59	52	59	53	62	48	40	44	51	38	44	53	51	48	57.0	
Beaver Dam.....	Maximum... 85	84	85	87	88	84	84	87	81	87	92	92	88	77	67	75	75	86	78	89	79	63	65	74	68	70	77	75	66	59	78.6	
Bradford.....	Minimum... 56	50	58	57	56	59	62	63	53	59	66	61	64	61	56	61	56	52	56	54	63	40	41	46	47	37	51	62	52	45	54.8	
Bradys Bend.....	Maximum... 87	86	89	90	89	88	83	81	87	89	95	92	85	76	80	79	78	90	87	93	91	68	71	76	73	81	80	78	73	67	82.7	
Brookville.....	Minimum... 55	49	61	59	57	63	64	65	60	64	64	66	68	64	63	61	56	55	58	60	61	44	45	49	47	45	59	60	53	50	57.5	
Carlisle.....	Maximum... 81	82	83	83	85	76	76	77	...	88	92	87	79	70	72	69	76	83	79	83	...	58	69	67	65	74	...	77	65	64	76.3*	
Catawissa.....	Minimum... 48	47	48	50	56	60	62	63	...	50	57	61	60	60	53	58	51	49	49	...	58	36	31	44	43	32	...	53	51	44	50.9*	
Chambersburg.....	Maximum... 81	81	86	86	85	84	71	81	82	83	92	88	83	75	73	74	72	72	77	77	77	64	60	69	69	75	75	81	86	71	60	76.3
Claysville.....	Minimum... 43	36	53	50	45	54	51	47	53	52	57	60	53	53	53	46	44	46	55	47	30	31	42	40	30	38	48	48	39	...	47.3	
Clearfield.....	Maximum... 89	84	86	85	89	76	80	82	85	90	93	90	85	84	73	73	76	87	75	90	72	61	70	74	68	72	80	73	69	66	...	79.2
Coatesville.....	Minimum... 41	39	54	53	48	58	58	50	49	56	57	60	49	46	56	54	47	44	49	50	39	32	31	41	33	31	50	35	48	42	46.7	
Corry.....	Maximum... 92	90	92	95	90	85	90	86	80	94	95	98	91	86	80	84	81	86	85	88	81	77	63	81	75	75	81	86	71	60	...	83.9
Emporium.....	Minimum... 63	53	63	63	62	65	65	65	59	65	71	72	70	68	62	67	63	53	63	57	54	47	47	47	51	37	52	62	56	50	59.1	
Erie.....	Maximum... 91	85	84	90	89	74	84	82	78	89	92	95	87	78	80	81	79	77	83	83	78	64	68	75	69	72	75	79	70	64	79.5	
Franklin.....	Minimum... 55	46	59	60	53	61	60	68	54	60	65	60	68	64	56	60	55	50	56	53	64	41	34	48	46	32	52	60	44	44	54.3	
Grovesville.....	Maximum... 91	89	90	96	85	85	90	85	85	94	95	96	93	82	76	80	80	90	85	90	88	73	65	79	73	74	83	82	76	64	84.0	
Harrisburg.....	Minimum... 59	49	64	61	59	60	64	66	60	62	68	65	69	66	62	65	60	52	66	57	70	45	49	46	50	39	50	62	55	49	58.3	
Hawley.....	Maximum... 88	90	91	92	92	86	87	82	88	92	98	92	84	76	80	79	81	92	85	94	85	68	75	79	73	88	82	82	68	68	83.9	
Huntingdon.....	Minimum... 58	46	60	55	50	61	64	64	57	72	63	69	69	60	63	58	54	54	57	63	63	44	44	45	43	45	61	63	51	46	56.7	
Indiana.....	Maximum... 90	89	90	92	95	82	88	89	88	90	99	94	88	86	84	76	83	89	84	92	80	64	74	76	71	74	68	71	78	69	83.1	
Johnstown.....	Minimum... 50	44	57	57	53	61	61	65	53	54	56	62	59	58	56	59	53	50	54	53	62	37	35	50	42	35	50	60	52	45	52.8	
Lancaster.....	Maximum... 86	83	86	86	85	78	83	81	82	85	90	91	91	80	78	80	74	80	82	81	82	68	58	58	75	66	72	77	81	71	79.1	
Lebanon.....	Minimum... 64	52	53	55	57	52	68	64	58	65	71	71	69	69	61	68	59	48	65	50	67	40	43	44	46	31	52	63	53	44	56.4	
Lock Haven.....	Maximum... 79	82	83	83	85	75	76	75	86	88	92	81	71	75	67	75	85	74	89	70	58	68	67	65	76	75	66	64	64	64	75.4	
Mt. Pleasant.....	Minimum... 46	44	60	60	54	63	58	61	49	68	60	64	64	60	54	59	50	55	50	56	52	37	34	44	44	36	57	57	55	43	53.1	
Northumberland.....	Maximum... 80	80	79	82	82	69	81	78	79	88	87	77	84	74	65	73	74	80	76	87	71	58	65	71	62	67	77	72	65	61	74.8	
Pottsville.....	Minimum... 48	44	56	60	56	60	62	61	54	58	62	64	66	64	59	55	62	54	51	54	48	36	31	49	42	31	50	56	52	43	52.6	
Reading.....	Maximum... 78	79	81	79	81	74	74	70	80	84	92	82	70	69	63	67	71	81	72	90	71	55	63	68	56	74	75	66	63	57	73.1	
Scranton.....	Minimum... 61	60	65	64	62	66	65	59	58	74	70	69	64	61	57	60	57	66	61	68	51	45	42	53	49	50	61	61	50	49	59.3	
Shenandoah.....	Maximum... 84	85	89	88	90	72	85	83	87	91	94	84	76	79	76	74	80	89	77	93	69	59	72	73	70	75	78	73	79	67	79.7	
Uniontown.....	Minimum... 48	44	49	59	55	56	60	59	54	59	61	64	66	59	56	54	57	54	54	58	38	36	39	48	40	44	59	56	43	...	82.9	
Warren.....	Maximum... 93	91	93	95	90	88	91	84	84	90	95	96	90	83	76	84	81	88	85	86	84	75	62	82	73	75	82	83	75	63	83.9	
West Chester.....	Minimum... 62	53	54	60	59	60	60	64	58	63	67	70	68	68	67	60	62	65	55	71	45	46	45	49	36	50	59	55	45	...	57.5	
York.....	Maximum... 85	84	86	87	85	84	80	79	87	89	94	90	84	75	79	75	77	90	84	92	85	64	72	75	68	80	81	77	67	67	80.8	
York.....	Minimum... 74	54	60	58	54	62	64	61	57	69	66	70	68	62	63	61	59	55	57	63	64	42	45	50	49	50	57	63	52	49	58.6	
York.....	Maximum... 84	85	88	88	90	72	85	83	87	91	94	84	76	79	76	74	80	89	77	93	69	59	72	73	70	75	78	73	79	67	79.7	
York.....	Minimum... 48	44	49	59	55	56	60	59	54	59	61	64	66	59	56	54	57	54	54	58	38	36	39	48	40	44	59	56	43	...	82.9	
York.....	Maximum... 93	91	93	95	90	88	91	84	84	90	95	96	90	83	76	84	81	88	85	86	84	75	62	82	73	75	82	83	75	63	83.9	
York.....	Minimum... 62	53	54	60	59	60	60	64	58	63	67	70	68	68	67	60	62	65	55	71	45	46	45	49	36	50	59	55	45	...	57.5	
York.....	Maximum... 85	84	86	87	85	84	80	79	87	89	94	90	84	75	79	75	77	90	84	92	85	64	72	75	68	80	81	77	67	67	80.8	
York.....	Minimum... 74	54	60	58	54	62	64	61	57	69	66	70	68	62	63	61	59	55	57	63	64	42	45	50	49	50	57	63	52	49	58.6	
York.....	Maximum... 84	85	88	88	90	72	85	83	87	91	94	84	76	79	76	74	80	89	77	93	69	59	72	73	70	75	78	73	79	67	79.7	
York.....	Minimum... 48	44	49	59	55	56	60	59	54	59	61	64	66	59	56	54	57	54	54	58	38	36	39	48	40	44	59	56	43	...	82.9	
York.....	Maximum... 93	91	93	95	90	88	91	84	84	90	95	96	90	83	76	84	81	88	85	86	84	75	62	82	73	75	82	83	75	63	83.9	
York.....	Minimum... 62	53	54	60	59	60	60	64	58	63	67	70	68	68	67	60	62	65	55	71	45	46	45	49	36	50	59	55	45	...	57.5	
York.....	Maximum... 85	84	86	87	85	84	80	79	87	89	94	90	84	75	79	75	77	90	84	92	85	64	72	75	68	80	81	77	67	67	80.8	
York.....	Minimum... 74	54	60	58	54	62	64	61	57	69	66	70	68	62	63	61	59	55	57	63	64	42	45	50	49	50	57	63	52	49	58.6	
York.....	Maximum... 84	85	88	88	90	72	85	83	87	91	94	84	76	79	76	74	80	89	77	93	69	59	72	73	70	75	78	73	79	67	79.7	
York.....	Minimum... 48	44	49	59	55	56	60	59	54	59	61	64	66	59	56	54	57	54	54	58	38	36	39	48	40	44	59	56	43	...	82.9	
York.....	Maximum... 93	91	93	95	90	88	91	84	84	90	95	96	90	83	76	84	81	88	85	86												

UNP

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXX. OCTOBER, 1925. No. 10

GENERAL SUMMARY.

The month was remarkable in many respects. The mean temperature, 46.1°, was the lowest recorded since State-wide records were begun in 1888 and the average precipitation for the month, 4.83 inches, has been exceeded but four times. The mean monthly snowfall was the highest on record in Pennsylvania, every station reporting a measurable amount, which is unprecedented for this State so early in the season. Falls exceeding six inches occurred in the extreme northwestern portion of the State on the 20th, and the storm of the 30th resulted in a covering of from two to four inches in nearly all sections, with the earliest measurable snowfall ever recorded in southeastern sections. The storm of the 30th was followed by record-breaking October temperatures at several stations. The frequent rains of the month delayed field work to a considerable extent. Only about one-half of the corn crop was cut in September and the remainder was cut during the first half of October. Husking began early in the month but progressed slowly, as it was too wet for cribbing a large part of the time. The quality of the corn crop was the best that has been grown for several years. Husking was about half done at the end of the month. Nearly half of the ensilage was cut and stored during the fore part of the month. Conditions were favorable for winter wheat and rye, which came up to a good stand and were looking fine at the end of the month. Potato digging continued during the entire month and seemingly about one-fourth of the crop remained in the ground when the snow and cold occurred at the end of the month. The early freezing damaged pastures to some extent, especially in the northern part of the State, but in a large part of the State there was ample feed for stock throughout the month. Winter apples were gathered and stored during the month, and, although the crop was a small one, the quality was generally above the average. Considerable minor damage resulted from the heavy rains and high winds of the 24th in the southeastern part of the State. Huge trees were uprooted in Philadelphia and its suburbs, and similar damage was reported from sections of Lehigh and Berks counties.

F. H. A.

TEMPERATURE.

The mean temperature for the State, as determined by the records of 83 stations was 46.1°, or 6.5° below the October normal. The highest mean was 52.6° at Germantown, Philadelphia, and the lowest was 38.8° at West Bingham. The highest temperature recorded during the month was 83° at Claysville on the 1st and also at George School on the 17th. The lowest for the month was 9°, at Bradys Bend, on the 29th. The greatest daily range of temperature was 41° at Lykens on the 8th.

PRECIPITATION.

The average precipitation for the State, as deduced from the records of 134 stations, was 4.83 inches, or 1.59 inches above the October normal. The greatest monthly amount was 8.90 inches at Elk Lick, while the least for the month, 2.02 inches, was reported from Sharon. The greatest amount recorded in any 24 consecutive hours was 2.20 inches at New Castle. The snowfall averaged 3.8 inches for the entire State. 7.3 inches fell at Warren on the 20th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Total move- ment, in miles	Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Velocity, in miles per hour			
				8 a m	8 p m		Average	Highest	Direction	Date
Erie.....	52.0	343.1	15	79	81	10,232	13.8	48	w.	25
Harrisburg.....	189.5	345.2	55	74	70	5,044	6.8	36	w.	25
Philadelphia.....	149.6	345.2	43	68	69	6,606	8.9	48	s.	25
Pittsburgh.....	81.7	344.1	24	82	76	7,840	10.5	54	w.	25
Reading.....	102.9	345.2	27	79	75	5,109	6.9	44	w.	25
Scranton.....	138.4	341.1	41	92	87	5,159	6.9	32	nw.	10

* For any five-minute period.

COMPARATIVE DATA FOR OCTOBER

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	46.3	74	19	4.02	9.18	2.04	9	6	16
1889.....	47.3	83	13	3.85	8.61	1.88	8	8	14
1890.....	50.9	81	21	5.87	8.41	4.03	6	8	17
1891.....	50.6	91	15	3.06	4.46	0.84	11	9	11
1892.....	50.1	83	16	0.72	2.93	0.00	13	11	7
1893.....	53.0	91	17	3.26	6.58	1.18	14	8	9
1894.....	53.6	88	24	4.26	7.66	0.65	12	8	11
1895.....	47.3	76	17	1.99	4.63	0.45	17	8	6
1896.....	48.9	86	18	3.19	5.70	0.94	11	8	12
1897.....	54.2	95	16	1.32	5.93	T.	14	8	9
1898.....	53.8	92	20	5.20	8.62	2.36	11	7	13
1899.....	54.6	94	15	1.55	3.81	0.53	13	8	10
1900.....	58.6	95	19	2.74	5.10	0.80	11	9	11
1901.....	52.2	83	20	1.23	3.35	0.23	16	10	5
1902.....	53.1	89	19	4.64	8.12	1.65	12	9	10
1903.....	53.4	91	20	4.64	10.53	2.07	12	8	11
1904.....	50.6	91	12	2.87	7.11	1.26	15	8	8
1905.....	53.2	90	16	4.23	7.06	2.18	14	7	10
1906.....	52.0	87	14	4.46	8.39	1.97	7	7	17
1907.....	48.2	87	13	3.16	5.64	1.01	16	8	7
1908.....	54.6	93	19	1.95	5.48	0.08	16	7	8
1909.....	48.4	87	15	2.27	4.60	0.70	13	7	11
1910.....	55.6	91	14	1.91	5.23	0.62	16	8	7
1911.....	52.3	83	18	4.83	9.23	2.59	11	7	13
1912.....	54.2	90	23	2.74	5.27	0.90	15	7	9
1913.....	54.9	88	16	5.44	9.62	3.15	10	6	15
1914.....	56.4	91	11	2.35	4.37	0.89	11	9	11
1915.....	54.2	85	17	2.65	5.33	1.00	15	7	9
1916.....	52.1	92	16	2.25	4.45	0.76	18	7	6
1917.....	47.2	84	12	6.38	9.80	3.33	10	10	11
1918.....	55.5	85	19	3.17	2.20	0.24	15	8	8
1919.....	57.5	92	21	4.77	8.04	2.28	9	8	14
1920.....	57.5	88	22	1.67	4.67	0.50	19	7	5
1921.....	52.6	84	3	2.16	6.55	0.40	17	7	7
1922.....	54.8	94	12	2.51	5.60	0.65	18	8	7
1923.....	51.0	87	12	2.38	6.01	0.90	15	8	8
1924.....	52.9	87	14	0.28	2.30	0.00	21	7	3
1925.....	46.1	83	9	4.83	8.90	2.02	6	8	17

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	2.6	5.8	26	2.1	9	18
Phillipsburg.....	Delaware.....	1.7	5.5	27	0.9	14	22
Mauch Chunk.....	Lehigh.....	3.4	3.7	26	3.4	1	12
Wilkes-Barre.....	Susquehanna.....	4.1	10.1	27	3.0	4	20
Williamsport.....	Susquehanna.....	0.6	3.2	27	0.1	2	20
Harrisburg.....	Susquehanna.....	3.7	5.4	29	3.3	4	17
Freepoint.....	Allegheny.....	3.6	10.1	28	1.4	3	22
West Newton.....	Youghiogheny.....	2.4	10.5	26	0.2	1	20
Lock No. 4.....	Monongahela.....	16.4	29.5	26	12.5	1	31
Pittsburgh.....	Ohio.....	9.2	16.7	26	6.7	2	22
Beaver Dam.....	Ohio.....	9.4	19.6	27	5.9	21	30

Climatological Data for October, 1925

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 01 in or more	Clear	Pt. cloudy		Cloudy	Prevailing direction of wind
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	13	47.4	.....	74	3	22	31	29	5.64	+2.23	1.04	2.2	11	11	17	3	uw.	John A. Frick.
Altoona.....	Blair.....	1,615	38	44.2	-7.7	70	17	22	29	32	4.61	+2.12	1.17	5.0	19	6	10	15	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	295	41	50.6	-4.9	74	3	22	31	29	5.53	+2.30	1.15	3.0	8	1	23	7	w.	Rev. R. H. Brennecke, Jr.
Biglerville.....	Adams.....	652	3	47.6 ^a	.....	74 ^a	3	22 ^a	31	23 ^b	7.08	.....	1.63	4.0	11	9	6	16	.....	R. C. Walton.
Bustleton.....	Philadelphia.....	125	6	50.6	.....	77	17	24	31	32	5.14	.....	0.79	1.8	11	7	11	13	w.	Experiment Station.
Canton.....	Bradford.....	1,300	.....	41.6	.....	66	3	21	31	28	3.29	.....	1.25	2.1	14	5	3	23	n.	Marble Laboratory, Inc.
Carlisle.....	Cumberland.....	467	58	48.8	-3.5	72	16	20	31	31	5.89	+2.63	1.48	5.0	11	13	4	14	nw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	28	46.4	-7.2	71	3	18	31	36	3.59	+0.49	0.76	2.8	16	14	4	13	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	25	48.0	-4.8	71	3	25	31	26	7.86	+4.66	1.59	5.6	14	6	9	16	w.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	15	44.6	-8.4	71	8	25	24	39	4.16	+0.84	1.16	7.0	14	4	7	20	nw.	E. W. Hess.
Coatesville.....	Chester.....	380	37	47.2	-7.1	74	17	19	31	32	5.57	+2.05	1.31	3.5	12	8	12	11	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	15	46.4	.....	69	17	23	31	27	6.42	+3.45	1.93	2.8	15	9	2	20	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	37	43.0	-7.0	68	17	24	29	30	3.93	+0.63	1.13	3.0	17	3	9	19	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	24	48.3	-6.8	72	17	23	31	27	5.55	+2.38	1.26	2.7	15	7	6	18	nw.	Ira J. Keath.
Freeland.....	Luzerne.....	1,970	10	40.4	.....	67	17	15	31	27	4.96	.....	1.16	7.0	16	5	4	22	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	18	49.6	-5.3	83	17	24	31	33	4.73	+1.48	1.22	2.5	12	9	13	9	w.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	600	51	50.2	-2.0	74	3	23	31	32	6.19	+2.99	1.18	3.0	15	7	14	10	nw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	21	44.2	-6.5	71	17	11	31	34	4.19	-0.19	1.00	4.0	15	6	5	20	w.	Capt. J. G. Johnson.
Gouldsboro.....	Wayne.....	1,875	1	40.3	.....	65	17	18	31	26	3.33	-0.12	1.50	5.0	11	3	9	19	w.	Gustav Holtz.
Hamburg.....	Berks.....	535	32	46.0	-7.9	72	3	17	31	36	5.76	+1.70	1.46	5.7	10	9	10	12	w.	State Sanatorium.
Hanover.....	York.....	600	21	50.0	-6.1	74	4	24	31	28	5.53	+2.67	1.17	2.5	16	11	9	11	w.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	55	48.3	-6.5	71	17	27	31	24	6.03	+3.08	1.74	2.1	13	6	9	16	nw.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	6	43.6	.....	69	17	13	31	34	3.79	.....	0.95	3.0	12	.....	.....	.....	.....	J. S. Pennell.
Holtwood.....	Lancaster.....	200	10	49.6	.....	73	17	28	31	25	5.06	.....	1.38	1.2	9	9	4	18	.....	H. W. Lowy, C. E.
Huntingdon.....	Huntingdon.....	650	37	46.6	-5.9	71	17	25	24	34	3.76	+0.75	0.80	3.5	15	4	6	21	w.	Prof. W. J. Swigart.
Hyndman.....	Bedford.....	977	.....	47.5	.....	78	7	22	24	34	4.86	.....	1.13	3.5	16	0	3	28	.....	John S. Madore.
Jersey Shore.....	Lycoming.....	570	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Kennett Square.....	Chester.....	340	53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. P. Mercer.
Lancaster.....	Lancaster.....	255	37	49.4	-4.0	74	17	20	31	33	5.46	+2.38	1.48	2.0	10	17	11	3	n.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	27	43.0	-7.5	68	16	22	29	32	3.76	+1.00	0.78	3.5	13	7	3	21	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	84	47.6	-5.6	72	17	23	31	31	5.30	+1.78	1.39	3.0	11	9	7	15	w.	S. B. Benzing.
Lewisburg.....	Union.....	450	50	47.3	-2.9	76	3	16	31	33	4.71	+1.47	1.00	3.0	14	7	7	17	s.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	580	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles Dunn.
Lykens.....	Dauphin.....	680	10	45.4	.....	70	17	12	31	41	4.01	.....	1.05	3.0	17	5	9	17	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbou.....	600	34	46.4	-5.9	78	2	17	31	35	5.22	+1.46	1.49	2.8	16	9	8	14	w.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	21	47.5	-4.9	71	3 ⁺	20	31	34	3.06	-0.18	0.70	3.5	14	5	4	22	nw.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	22	42.0	-7.0	67	17	15	31	29	3.78	+0.26	1.11	5.0	10	4	13	14	w.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,658	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	13	42.7	.....	68	17	20	31	29	4.62	+1.26	1.13	1.8	14	9	13	9	w.	A. H. Boatman.
Narberth.....	Montgomery.....	300	6	49.4	.....	75	17	24	31	28	5.66	.....	1.14	3.6	14	6	10	15	nw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	36	48.0	.....	78	17	24	31	39	4.89	.....	0.90	1.0	11	15	4	12	w.	North Springfield Water Co.
Palmerton.....	Carbon.....	398	8	44.5	.....	72	3	16	31	34	4.35	.....	1.40	2.5	13	8	6	17	ne.	F. G. Breyer.
Philadelphia (a).....	Philadelphia.....	114	54	52.2	-5.6	77	17	29	31	23	4.14	+1.04	0.98	1.1	12	4	13	14	nw.	U. S. Weather Bureau.
Philadelphia (d).....	Philadelphia.....	12	9	51.8	.....	76	3 ⁺	15	31	24	4.54	.....	0.98	1.8	10	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze.....	Philadelphia.....	90	.....	51.6	.....	76	17	29	31	22	4.01	.....	0.85	2.4	11	6	10	15	w.	Atlantic Refining Co.
Philadelphia-Gtn.....	Philadelphia.....	113	.....	52.6	.....	75	3	29	31	23	4.97	.....	0.96	1.2	12	6	12	13	.....	Julius Bernstein.
Phoenixville.....	Chester.....	100	14	48.2	.....	70	3 ⁺	22	31	30	4.49	.....	0.76	4.0	10	16	12	3	nw.	North Springfield Water Co.
Quakertown.....	Bucks.....	496	40	46.7	-5.4	73	3	21	31	37	5.80	+2.43	1.08	4.3	15	6	13	12	nw.	John E. Benner.
Reading.....	Berks.....	325	55	48.6	-6.1	73	17	25	31	26	4.58	+1.32	1.66	1.1	12	6	9	16	nw.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	30	45.5	-6.3	71	17	22	31	26	2.93	+0.02	0.97	2.7	16	3	5	23	n.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	35	47.6	-5.0	72	3	18	31	34	4.24	+0.70	0.92	4.0	16	5	9	17	nw.	Dr. George E. Fisher.
Shawmont.....	Philadelphia.....	51	29	50.0	.....	70	3 ⁺	26	31	25	5.09	+1.75	1.14	2.0	12	5	9	17	nw.	W. S. Guiles.
State College.....	Center.....	1,217	43	44.2	-6.8	67	3 ⁺	23	29	31	3.78	+0.89	0.76	2.5	16	4	11	16	w.	C. A. Kern.
Towanda.....	Bradford.....	754	30	43.8	-7.0	71	17	23	31	28	3.21	+0.11	1.13	1.0	15	7	3	21	e.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	59	41.0	-8.1	66	16 ⁺	16	31	31	2.91	-0.29	0.89	2.7	10	12	7	12	w.	George W. Hill.
West Chester.....	Chester.....	455	87	47.4 ^b	-7.1	72 ^b	4 ⁺	22 ^b	31	32 ^b	4.86	+1.12	1.40	2.0	12	11	11	9	w.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	38	46.6	-6.0	70	3	26	31	26	3.33	-0.04	1.16	2.0	13	7	11	13	nw.	George A. Beck.
York.....	York.....	400	37	48.8	-4.8	73	17	18	31	37	4.56	+1.68	0.84	2.0	15	8	9	14	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	32	47.4	.....	74	1	22	29	26	3.76	+1.25	0.68	.....	21	2	3	26	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	10	42.2 ^c	.....	69 ^c	2 ⁺	23 ^c	24 ⁺	32 ^c	5.20	.....	0.89	5.7	19	5	5	21	w.	City Engineer.
Bradys Bend.....	Armstrong.....	930	7	39.3	.....	64	2 ⁺	9	29	37	3.64	.....	0.93.							

Daily Precipitation for October, 1925

Continued on page 49

Daily Precipitation for October, 1925—Continued from page 48

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio.....			.53	.33	.43		.05			.08	.07	.02	.06	T.		.10	T.	.62		.03		.02	.33	.03	.02	.68	.06	.01		.21	.03	.05	3.76
Beaver Falls|||	Beaver.....			.26	.75	.35		.03		.06	.06	.04	.03	T.		.07		.57		.01		T.	.30	T.	.02	.65	.08	.01		.21	.03	.11	3.64	
Bradford.....	Allegheny.....			.51	*	.89		.05		.27	.18		.03		T.	.18		.54		.08	.22	.10	.09		.35	1.04		.37	.13	.05	.10	.02	5.20	
Bradys Bend.....	do.....		.32		.33	.07	.05	.01		.12	.01		.05	.01	.05	.09	.05	.52	.01	.05	.02	T.	.24		.29	.93		.02	.10	.12	.18		3.64	
Brookville.....	do.....		.15		.57	.10	.07			.13			T.		.15		.20			.10		.10		.10		.54	.77		T.	.27	T.	.15	3.80	
Clarion.....	do.....																																	
Claysville.....	Ohio.....		.18	.55	1.64		.03			.23	.03		.32	.26	.46	.07	.48	.68		.03		.01	.55		.32	.72		.07	.20		.21		7.04	
Cloe.....	Allegheny.....		.06		.30	.17	.18			.11			.15		.12		.50	.10		.04		T.	.22		.34	1.13		.07		.10		3.59		
Clymer.....	Conemaugh.....			T.	.62	.04	.02			.08	.08		.06		.11	.20	.04	.88		.11		T.	.19		.28	1.21		.02		.22		4.16		
Colegrove|||	Allegheny.....																																	
Confluence|||	Youghiogheny.....		1.65	*	1.40		.13			.15			.20		.80		1.60		.05			.11	.10	.03	1.46	.35			.16	.06	.29	8.53		
Coraopolis|||	Ohio.....		.14	.27	.25		.05		.07	.05	.02	.09	.06		.20	T.	1.17		.01			.40	.10	.06	.67	.06	T.	T.	.15	.03	.12	3.97		
Corry.....	Allegheny.....		.17	.20	.14	.10	.61	.06		.33	.03		.06			.09	.05	.44		.10	.32	.28	.06		.31	.67	.17	.45	.21	.01	.12	4.98		
Coudersport.....	do.....																																	
Creekside.....	Allegheny.....		.03		.61	.05	*	.04		T.	.05		*	.07	*	.26	*	.88		.10			.23		*	1.48		.02	.14		.26	4.22		
Derry.....	Conemaugh.....		T.	.05	.82	.06	.05		.10	T.		.24	.04	.38	.09	.55	.20	.04		.29		.29		.18	1.33			T.		.16	T.	4.75		
Ebensburg.....	Conemaugh.....		T.	.05	.74	.04	.05		.15	.08		.10	.06	.20	.36	.20	.57		.10		.20		.20		.22	1.05				.20		4.37		
Elk Lick.....	Youghiogheny.....		.65	.50	1.60		.12		.21		.20	.30	.08		.20	1.44	.45				.30	1.00		1.15					.20	.40		8.90		
Falls Creek.....	Allegheny.....		.14		.38	.23	.05		.16						.17		.66		.04	T.		.16		.40	1.18		.06	.13		.20		3.96		
Franklin|||	Allegheny.....			.93	.23	.37		.05		.13			.05		.10		.53		.08	.10		.07	.11		.12	.20	.09	.04	.18	.08	.15	4.61		
Freeport|||	Allegheny.....			.05	.87	.53		.03		.10	T.	.10					.90		.05		T.	.46	.15	.10	.84		T.		.12	.15		4.48		
Greensburg.....	Youghiogheny.....		.05	.08	.99	.05	.04		.11	T.		.30	.05	.73	.08	.65	.35		T.	T.		.40		.24	1.17	T.	T.	.08	*	.25		5.62		
Greenville.....	Beaver.....		.52	.54	*	.17	.10	.04		.15	.32		.03	.08		.48	.03			.50	*	.06		* .96	.10	.18	.20	* .17				4.63		
Grove City.....	Beaver.....		2.10	1.05	.35	.05	.07		.10	.23		.04		.01	.04	.05	.25		.03	.05	T.	.18		.25	.97	T.	.05	.21	.01	.12	.02	6.23		
Herr's Isl. Dam|||	Ohio.....			.20	.28	.46		.05		T.	.05	.03	.07		.32	.02	.99	.02	T.			.36	.13	.06	.70	.10	T.		.18	.10	.16	4.28		
Indiana.....	Conemaugh.....			.40	.04	.05			.10	.05	.05	.05		.19	.02	.10	.94		.10		.20			* 1.10		.20	T.		.09			3.63		
Ingram.....	Ohio.....		.08	.05	.79	.01	.04		.17	.05		.21	T.	.31	.04	.91	.24		T.	T.		.66		.30	.65		.03	.19		.30		5.03		
Irwin.....	Youghiogheny.....		T.	.10	.90	.04	.06		.15	T.		.16	.07	.30	.08	.54	.48		.01		.30	.01	.23	.88			T.		.36		4.67			
Johnstown.....	Conemaugh.....		.02	.04	.82	.09	.03		.14	.02		.12		.50	.15	.56	.13	T.	.11	.05	.01	.25		.35	1.09	.02	.02	.21	T.	.29		5.02		
Ketner.....	Allegheny.....		.08	.15	.16	.41	.05	.06		.20	.05			.03	.12	.05	.33		.05	.04		.10		.48	.86	.11	.09	.15		.16		3.73		
Kregar|||	Youghiogheny.....		.09	.30	T.	1.33	.02	.05		.22	.02	.03	.39	T.	.94	.06	.60	.25	.07	.05		.12	.24		1.60	.56	.03		.12		.06	7.15		
Linesville|||	Beaver.....		1.68	.12	.44	.05	.08	*	.04	.31	.11		.04		.07	*	.52	.02	.02	.32	.27	.02	.01		.78	.07	.28	.13	.15	.08	.04	5.65		
Lock No. 4|||	Monongahela.....			.63	.01	1.47		.07		.06	.10	T.	.11	.29		.82	.02	.97		.04	.01		.38	.10	.06	1.05	.05	.03		.13	.08	.22	6.70	
Lycippus.....	Conemaugh.....		.01	.22	1.00	.05	.05		.15	T.		.30	.05	.35	.16	.19	.55		.09		.31		.15	1.33			.13		.27		.76			
Martin.....	Monongahela.....		T.	.97		1.58		.04	.08	.11	.11	.02	.35		.53	.04	1.28	T.	T.	.05		.15	.04	.10	1.63	.15	T.		.11	.09	.35	7.78		
New Castle|||	Beaver.....		2.20	.48	.07		.08		.11	.04	.04				.05		.38		.04		.18		.85					.05		T.		4.59		
Newell.....	Monongahela.....		.40		1.20	.20	.02		.14			.14	.23	.44	.44	.38	.43		.02	T.	T.	.30		.20	.94		.03	.03		.07	.02	5.63		
Parkers Landing|||	Allegheny.....			.37	.15	.24		.05		T.	.38	T.	T.		.18		.66		.03	T.	T.	T.	.35	T.	.95	.17	T.		.20		.05	3.48		
Pennline|||	Beaver.....			.53	.11	.43	.03		.10	.03	.12	*	.04		.07		.64		.03	.19	.28	.01	.04		* .80	.06	.46	.05	.14	.05	.03	4.24		
Pittsburgh**	Ohio.....		.13	.01	.68	T.	.03		.12	.04		.15		.20	.02	.91	.17		T.	T.	T.	.51		.21	.58	.01	T.		.24		.04	4.09		
Ridgway†	Allegheny.....		.12		.26	.35			.26								.47		.05		.05		.05		.65	.87			.05		.13		3.13	
Saltsburg|||	Conemaugh.....			.03	.40	.38			T.	.20	.09	.06	.09	.20	.30		.70	.08	.04	T.		.16	.16	.02	1.00	.25			.08	.11	.25	4.60		
Saegertown.....	Allegheny.....		.26	.04	.17	.55	.06		.27	.05		.01			.21	.47		.04	.10	.30	.15		.45	.57	.13	.47	.30	.05				4.65		
Sharon|||	Beaver.....		.70	.40	.04	T.	.08		T.	T.		.10		.03	*	.49		.03	T.		.07		T.				T.	T.	T.	.08	T.	2.02		
Somerset.....	Youghiogheny.....				.40		1.10		.40			.36		.07		.10	1.25		.20		.32	.25			1.40	.05	.30	.20	.25			6.65		
Springdale|||	Allegheny.....		.15	.30	.40		.05		.05	.06	.06	.08	.06		.33	.04	1.10		.02		.28	.14	.10	.88	.12	.02		.16	.08	.22	4.70			
Uniontown.....	Monongahela.....		.33	1.15	1.72		.03		.15	.03		.22	.23	.65	T.	.85	.23		.07		T.	.10		.17	2.05		T.	.15	T.	.12	T.	8.25		
Unity Reservoir|||	Youghiogheny.....		.04	.12	.89	.07	.05		.10		.30	.10	.65	.14	.48	.35					.50		.12	1.22				.15		.28		5.56		
Vandergrift.....	Conemaugh.....				.75	.10	.05		.12	.02		.07		.12	.10	.20	.74		.05			.40		.17	.92			.15		.25		4.21		
Warren.....	Allegheny.....		1.00	.18	.46	.06		.02	.30	.10		.02		.06		.46		.12	.83		.08			1.24		.26	.08	.12	.04	.04	5.47			
Washington.....	Ohio.....		.76		1.90	T.	.03		.16	.02	T.	.46		.25	.04	1.00	.26		.05		.09	.56		.47	.57	.02	.02	.18		.27		7.11		
Waynesburg|||	Monongahela.....		*	.64		1.58		.04	.02	*	.10	T.	.35		1.23		1.12				.35		1.30											

Daily Temperatures for October, 1925

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum...	57	61	74	62	60	59	61	63	50	43	54	55	61	60	67	72	73	53	60	48	48	48	51	49	61	55	53	56	44	33	39	55.8	
	Minimum...	38	42	54	53	50	43	42	36	38	34	33	38	39	35	38	52	55	41	43	38	34	36	36	33	35	40	37	32	30	22	39.0		
Altoona.....	Maximum...	50	57	66	64	56	54	61	63	54	40	48	46	62	50	58	63	70	55	47	42	45	39	45	40	50	47	46	49	36	32	38	50.7	
	Minimum...	46	50	55	49	50	44	31	36	27	32	34	41	36	49	48	55	35	37	32	31	32	32	28	39	37	37	30	22	26	25	37.6		
Beaver Dam.....	Maximum...	74	71	69	66	60	57	60	64	60	45	49	50	60	60	61	61	62	71	61	59	43	47	44	50	48	51	47	46	45	38	36	40	54.7
	Minimum...	52	53	61	54	51	45	40	38	41	31	31	44	44	38	53	43	50	38	39	34	35	33	32	31	42	39	39	30	22	30	31	40.1	
Bradford.....	Maximum...	56	61	63	63	68	53	69	60	54	37	46	46	59	54	54	64	69	49	54	38	38	38	43	40	40	40	40	40	40	40	40	50.6°	
	Minimum...	42	50	55	42	40	39	36	35	25	32	40	30	28	39	37	29	36	32	31	27	26	23	23	23	23	23	23	23	23	23	23	33.8°	
Bradys Bend.....	Maximum...	63	64	64	64	58	53	52	62	62	41	42	47	50	57	57	58	52	48	38	39	39	41	42	42	44	44	44	44	44	44	44	51.2	
	Minimum...	41	40	39	45	42	36	30	25	33	21	26	31	26	27	45	32	41	26	30	27	25	25	19	20	33	32	31	27	9	30	20	30.1	
Brookville.....	Maximum...	58	64	68	58	58	53	60	64	48	41	50	47	61	55	60	67	67	54	47	41	44	36	45	46	51	44	44	48	36	32	39	51.2	
	Minimum...	40	52	48	45	39	39	30	29	27	24	33	41	29	30	41	38	30	29	32	32	30	27	24	23	37	32	28	21	20	27	15	32.0	
Carlisle.....	Maximum...	55	58	70	65	63	62	65	65	55	50	49	51	64	54	68	72	70	57	60	51	56	45	60	45	62	54	57	54	50	38	49	57.2	
	Minimum...	50	55	58	53	52	44	51	35	41	33	35	40	38	40	54	58	57	38	42	35	27	37	29	27	45	38	37	27	28	31	20	40.5	
Catawissa.....	Maximum...	57	65	74	57	60	64	62	68	49	42	52	55	65	55	69	65	58	58	44	46	44	54	54	54	54	55	58	52	48	36	48	56.1	
	Minimum...	39	44	53	50	49	39	43	32	40	30	27	35	33	31	46	43	55	34	36	37	30	32	27	26	42	40	37	28	25	34	18	36.6	
Chambersburg.....	Maximum...	55	60	71	65	62	62	65	63	56	52	50	55	63	54	67	68	69	56	57	49	53	45	54	43	56	53	51	51	44	35	41	55.6	
	Minimum...	50	52	59	50	55	45	51	37	41	32	33	37	42	42	47	50	56	39	43	35	31	37	30	30	42	37	40	28	27	30	25	40.4	
Claysville.....	Maximum...	83	79	70	69	60	55	65	66	69	49	49	49	60	68	60	59	70	62	50	43	47	40	53	51	56	47	47	48	37	34	46	56.2	
	Minimum...	52	56	58	51	49	42	41	32	38	28	27	43	45	39	51	48	47	41	36	30	31	32	27	31	39	36	34	24	16	28	29	38.1	
Clearfield.....	Maximum...	56	60	64	62	63	54	69	71	56	45	53	48	68	57	61	64	70	52	48	45	48	40	49	40	50	48	46	48	37	34	48	53.4	
	Minimum...	46	50	55	46	48	39	38	32	37	32	34	37	30	31	50	42	48	32	34	34	29	32	27	25	25	36	33	30	25	28	26	35.8	
Coatesville.....	Maximum...	58	65	73	66	64	63	60	63	50	48	51	55	60	58	70	72	74	57	61	49	51	45	51	48	66	54	52	56	43	35	39	56.7	
	Minimum...	34	53	60	50	46	40	40	31	35	32	25	42	43	33	50	52	55	40	40	33	29	32	32	25	45	36	32	25	27	30	19	37.6	
Corry.....	Maximum...	68	65	62	66	55	53	60	59	50	37	46	45	59	60	60	61	51	56	49	35	36	43	45	40	50	41	43	38	34	35	39	49.7	
	Minimum...	42	49	56	43	44	42	38	33	34	28	33	40	26	30	45	37	44	28	30	31	30	27	26	25	36	30	32	26	24	25	21	34.0	
Emporium.....	Maximum...	55	62	67	59	54	55	58	62	48	38	50	48	56	52	63	68	52	48	39	42	40	46	43	49	46	45	47	36	33	38	60.4		
	Minimum...	40	40	55	48	45	40	38	33	37	25	29	42	32	28	51	44	38	31	38	35	30	30	29	28	40	35	32	29	24	30	27	35.6	
Erie.....	Maximum...	67	69	62	59	55	56	53	56	51	41	47	52	54	62	59	60	51	55	51	41	38	44	44	44	48	44	44	44	44	35	38	60.3	
	Minimum...	50	53	53	49	48	49	44	42	37	34	39	43	37	42	49	46	41	37	34	32	32	33	34	35	42	39	36	29	28	28	27	39.4	
Franklin... Franklin...	Maximum...	66	65	67	63	58	54	61	65	50	44	49	48	64	60	63	68	55	58	43	44	44	45	45	52	49	45	44	47	42	40	38	52.8	
	Minimum...	44	47	44	49	42	43	38	33	35	28	31	36	33	33	34	32	41	29	33	31	31	30	30	26	31	33	35	31	21	25	33.9		
Gettysburg.....	Maximum...	56	61	74	69	65	68	65	67	58	53	56	59	65	54	70	71	70	59	66	54	59	47	58	58	59	57	56	57	55	37	43	59.5	
	Minimum...	48	52	59	50	53	43	48	35	40	33	32	32	45	40	47	54	59	38	47	34	30	35	29	46	46	42	39	30	27	30	23	40.8	
Greensburg.....	Maximum...	71	66	69	64	59	54	61	64	55	40	50	51	62	65	59	64	70	59	52	40	47	42	50	47	56	47	46	49	34	33	41	53.8	
	Minimum...	51	53	59	53	50	43	42	35	38	30	28	41	44	40	52	47	48	41	36	31	32	32	30	31	42	37	38	28	20	29	28	39.0	
Grove City.....	Maximum...	66	63	66	62	62	51	56	60	54	38	48	47	58	60	58	58	64	56	53	41	42	40	49	50	40	43	41	40	33	32	34	50.5	
	Minimum...	48	50	56	51	48	44	38	34	36	28	32	41	32	42	50	37	43	31	31	31	25	28	32	37	34	34	26	18	26	26	36.2		
Hamburg.....	Maximum...	57	58	72	71	70	62	58	57	56	50	40	53	60	64	65	62	60	70	56	44	44	46	48	47	55	49	53	50	50	46	40	55.3	
	Minimum...	37	50	57	47	48	43	48	31	37	32	33	37	32	37	39	53	40	34	37	36	27	33	30	27	42	39	31	27	29	30	17	36.8	
Harrisburg.....	Maximum...	56	60	69	61	61	61	62	62	52	43	49	55	62	55	62	67	68	71	52	58	47	50	43	52	47	56	52	50	53	41	36	40	54.5
	Minimum...	49	54	59	54	52	48	47	38	42	34	37	48	44	42	50	46	49	42	40	38	35	38	36	34	44	39	40	33	31	31	27	42.1	
Hawley.....	Maximum...	62	55	62	60	54	56	56	62	59	46	50	51	55	56	63	67	69	53	55	49	44	45	46	46	53	49	49	50	49	34	40	53.1	
	Minimum...	28	49	53	40	46	34	39	31	37	30	31	39	30	23	46	34	50	32	41	36	32	29	28	29	36	40	30	27	23	24	13	34.2	
Huntingdon.....	Maximum...	58	61	70	65	59	59	64	66	60	44	52	51	65	54	63	66	71	54	52	46	47	43	49	42	56	52	52	62	40	34	45	54.6	
	Minimum...	51	53	57	53	52	39	40	32	38	30	34	37	39	32	49	50	49	35	41	36	34	34	28	25	42	41	39	27	27	29	27	38.7	
Indiana.....	Maximum...	78	76	70	67	69	60	65	68	57	44	49	55	63	60	58	61	70	65	66	64	62	45	46	57	55	52	50	50	52	34	43	58.4	
	Minimum...	50	54	51	48	46	40	45	34	36	27	30	37	45	38	51	40	39	35	37	35	31	35	34	35	33	30	31	32	17	26	37.7		
Johnstown.....	Maximum...	56	64	67	61	59	59	63	68	51	39	51	48	62	55	59	64	70	52	50	41	47	38	47	43	52	50	47	53	35	33	40	62.4	
	Minimum...	50	54	57	55	49	45	45	35	37	30	34	43	38	53	53	48	42																

CALL
N/A

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXX. NOVEMBER, 1925. No. 11

GENERAL SUMMARY.

The weather during November was mostly seasonable. The temperature averaged somewhat below the November normal while there was a moderate excess in precipitation, but these represented gradual accumulations rather than extreme or unusual conditions at any particular period. The chief feature of the month's weather was the fairly heavy and general rains that occurred on the 13th. More than one-third of the total precipitation for the month occurred at that time. These rains replenished the streams, filled the ponds and reservoirs, and ensured an ample water supply for the winter. The month as a whole was favorable for field work and good progress was made in preparations for the coming winter. Corn husking was generally finished by the middle of the month and much fodder was hauled in from the fields. Some plowing was done. A considerable portion of the late potato crop remained in the ground at the end of October, and was more or less damaged by the unusual snow and cold that occurred at that time. The damage was enough to cause a sharp rise in prices early in November, when the digging was finished. Conditions were favorable for winter wheat and rye and the grain continued to grow in the southeastern counties most of the month. Correspondents reported that the grain was generally well rooted and in fine condition for the winter. Growth seemed to cease with the cold that occurred during the last week. There were no severe or damaging conditions in either weather or temperature during the month, and the wind velocities were generally moderate.

TEMPERATURE.

The mean temperature for the State, as determined by the records of 83 stations was 39.5°, or 1.5° below the November normal. The highest mean was 45.4° at the Philadelphia Weather Bureau and at Germantown, Philadelphia, and the lowest was 33.1° at West Bingham. The highest temperature recorded during the month was 71° at Uniontown on the 15th. The lowest for the month was 4° at West Bingham on the 29th. The greatest daily range of temperature was 44° at Clearfield on the 14th.

PRECIPITATION.

The average precipitation for the State, as deduced from the records of 132 stations, was 3.56 inches, or 0.89 inch above the November normal. The greatest monthly amount was 6.07 inches at Gordon, while the least for the month, 1.50 inches, was reported from Neshaminy Falls. The greatest amount recorded in any 24 consecutive hours was 2.45 inches at Biglerville and Narbeth on the 12th and 13th. The snowfall averaged 2.2 inches for the entire State. The greatest monthly snowfall reported was 17.0 inches at Corry. The greatest 24 hour snowfall was 7.0 inches at Corry on the 16th. Seven inches also fell at Saegertown on the 17th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total movement, in miles	Velocity, in miles per hour		
				8 a m	8 p m		Average	Highest	Direction
Erie.....	88.8	294.9	30	77	75	13,311	18.5	60	s.
Harrisburg.....	190.4	299.4	64	72	67	5,620	7.8	31	sw.
Philadelphia.....	156.1	299.4	52	68	62	7,380	10.2	35	s.
Pittsburgh.....	124.4	297.0	42	75	68	9,230	12.8	42	w.
Reading.....	156.2	299.4	52	77	73	5,272	7.3	42	se.
Scranton.....	161.1	297.0	54	83	82	5,825	8.1	38	sw.

* For any five-minute period.

COMPARATIVE DATA FOR NOVEMBER

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	42.2	79	4	3.37	6.22	1.99	9	7	14
1889.....	41.8	73	10	6.72	10.16	2.72	5	8	17
1890.....	41.8	78	10	1.49	4.29	0.78	9	10	11
1891.....	39.7	76	6	2.65	5.70	1.09	9	8	13
1892.....	39.0	80	10	4.34	7.08	1.61	6	8	16
1893.....	39.2	68	-4	2.93	5.69	1.16	8	11	11
1894.....	38.2	74	6	2.50	3.64	0.74	10	9	12
1895.....	42.9	78	6	2.48	5.73	0.97	10	8	11
1896.....	46.0	83	12	3.55	8.05	0.82	8	9	13
1897.....	41.6	76	2	5.28	7.04	2.37	6	8	16
1898.....	40.0	73	2	4.03	7.34	1.44	8	9	13
1899.....	41.5	72	8	2.66	4.86	0.61	10	8	12
1900.....	43.5	79	7	4.10	6.92	1.67	6	9	15
1901.....	36.0	76	7	2.56	5.00	1.23	7	8	15
1902.....	47.3	78	9	1.53	3.02	0.50	10	8	12
1903.....	36.9	78	0	2.18	5.33	0.88	11	8	11
1904.....	38.8	79	-4	1.14	3.31	0.14	10	9	11
1905.....	39.1	68	5	2.47	3.72	1.08	11	8	11
1906.....	41.5	80	9	1.48	3.08	0.54	12	6	12
1907.....	39.8	70	4	3.60	7.52	1.05	13	8	9
1908.....	41.2	75	-2	0.90	1.97	0.20	12	8	10
1909.....	46.4	80	15	1.40	3.97	0.26	12	8	19
1910.....	36.8	68	9	2.45	5.63	0.33	4	7	10
1911.....	37.8	77	7	2.84	5.68	0.99	7	7	16
1912.....	43.0	81	7	2.17	4.83	0.61	10	8	12
1913.....	43.9	79	10	3.05	6.34	1.43	10	5	15
1914.....	40.6	81	-2	1.76	4.27	0.57	12	9	9
1915.....	42.1	79	13	2.28	5.32	0.22	10	9	11
1916.....	41.3	79	4	2.27	7.97	0.88	13	6	11
1917.....	37.6	69	-5	0.63	1.37	0.12	14	7	9
1918.....	42.1	76	11	2.03	4.07	0.44	12	6	12
1919.....	41.2	76	11	5.35	8.45	1.84	11	7	12
1920.....	40.3	75	5	3.54	6.42	1.85	7	7	16
1921.....	42.3	80	3	5.75	9.14	3.20	5	7	18
1922.....	42.9	73	12	1.21	4.52	0.23	10	7	13
1923.....	40.7	70	10	2.83	6.84	1.55	12	5	13
1924.....	40.7	78	-9	1.54	3.29	0.56	12	8	10
1925.....	39.5	71	4	3.56	6.07	1.50	11	7	12

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	4.6	8.5	17	3.0	7	18
Phillipsburg.....	Delaware.....	5.2	10.0	17	2.5	8	22
Mauch Chunk.....	Lehigh.....	4.2	5.9	13	3.5	4	12
Wilkes-Barre.....	Susquehanna.....	7.7	12.4	16	5.2	6	20
Williamsport.....	Susquehanna.....	3.5	7.9	14	0.9	5	20
Harrisburg.....	Susquehanna.....	5.3	7.9	15	4.0	7	17
Freeport.....	Allegheny.....	8.1	12.2	17	4.2	6	22
West Newton.....	Youghiogheny.....	3.0	8.6	14	1.6	25	20
Lock No. 4.....	Monongahela.....	16.9	24.6	14	14.1	27	31
Pittsburgh.....	Ohio.....	11.3	17.1	14	8.3	4	22
Beaver Dam.....	Ohio.....	12.5	20.6	14	8.7	5	30

Climatological Data for November, 1925

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	13	40.5	.....	65	15	23	29	31	3.17	+0.77	1.23	1.7	8	16	12	2	w.	John A. Frick.
Altoona	Blair	1,615	38	37.7	-3.1	61	11†	13	26	33	3.67	+1.76	1.23	3.0	12	11	6	13	w.	Lewis E. Biller.
Bethlehem	Northampton	295	41	44.0	0.0	68	16	23	29	36	2.86	-0.25	0.92	1.5	7	4	20	6	w.	Lehigh University.
Biglerville	Adams	652	3	40.6 ^d	.....	65 ^d	15	21 ^d	25	33 ^d	3.79	.....	2.45	T.	5	11	7	12	.....	R. C. Walton.
Bustleton	Philadelphia	125	6	43.4	.....	70	15	22	29	36	3.43	.....	1.58	T.	5	14	3	13	w.	Experiment Station.
Canton	Bradford	1,300	37	37.1	.....	57	15	14	29	27	3.66	.....	2.01	2.1	10	8	6	16	w.	Marble Laboratory, Inc.
Carlisle	Cumberland	467	58	41.4	+0.7	69	15	16	25	43	3.60	+0.41	1.95	1.0	8	15	7	8	sw.	Prof. C. E. Miller.
Catawissa	Columbia	520	28	39.6	+2.8	65	15	16	29	41	3.06	+0.35	0.74	3.0	13	20	6	4	.....	H. H. Yetter.
Center Hall	Center	1,272	29	41.0	+1.1	65	3	21	30	30	4.00	+1.98	1.86	3.0	9	10	4	16	.....	S. W. Smith.
Chambersburg	Franklin	580	25	40.4	+1.0	66	15	21	1	35	3.61	+0.96	0.96	0.2	9	10	8	12	w.	William B. Spear.
Clearfield	Clearfield	1,120	15	37.2	-3.5	65	11	10	9	44	4.36	+1.52	0.95	4.0	13	11	6	13	w.	E. W. Hess.
Coatesville	Chester	380	37	39.2	-3.7	66	15	19	25	39	2.87	-0.32	1.62	0.3	9	7	15	8	w.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	15	39.9	.....	64	15	19	25	32	3.48	+0.86	1.72	0.5	9	15	5	10	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	37	36.8	-2.4	58	11	15	1	32	4.72	+2.01	0.99	2.0	12	11	6	18	w.	T. B. Lloyd.
Ephrata	Lancaster	380	24	41.2	-1.2	65	15	21	25	34	2.75	+0.36	0.59	0.2	8	14	8	8	w.	Ira J. Keath.
Freeland	Luzerne	1,970	10	33.4	.....	55	15	10	29	25	5.73	.....	1.84	3.0	10	10	8	12	nw.	Theo. Reichmann.
George School	Bucks	190	18	42.4	-0.2	69	15	20	26	39	3.52	+0.81	1.48	2.0	9	15	7	8	w.	Prof. N. W. Swayne.
Gettysburg	Adams	600	51	42.1	+0.8	67	15†	22	30	35	4.20	+1.53	2.07	0.2	8	10	12	8	sw.	Col. E. B. Cope.
Gordon	Schuylkill	840	21	37.9	-1.1	63	15	13	25†	37	6.07	+3.28	2.02	5.0	10	14	6	10	w.	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875	1	34.6	.....	58	8	12	29	28	4.75	+1.92	1.54	1.5	9	15	7	8	w.	Gustav Holtz.
Hamburg	Berks	535	32	38.8	-3.4	59	22	15	29	33	3.48	+0.62	0.96	2.0	6	17	8	5	w.	State Sanatorium.
Hanover	York	600	21	42.6	-1.6	65	15	23	24†	31	2.40	+0.47	0.53	T.	9	18	5	7	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	55	42.0	-0.8	65	15	26	29	28	4.32	+1.97	2.40	0.6	11	6	11	13	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	6	37.4	.....	62	22	12	1	38	3.20	.....	1.16	.....	9	15	8	7	w.	J. S. Pennell.
Holtwood	Lancaster	200	10	42.8	.....	64	15	23	25	27	1.72	.....	1.33	.....	4	9	4	17	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	37	39.7	-1.8	64	16	17	25†	38	2.98	+0.72	0.97	T.	9	7	9	14	nw.	Prof. W. J. Swigart.
Hyndman	Bedford	977	.....	40.2	.....	68	15	16	1	39	3.12	.....	1.02	T.	9	4	9	17	.....	John S. Madore.
Jersey Shore	Lycoming	570	5	.....	-1.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. B. McCullough.
Lancaster	Lancaster	255	37	41.9	-1.2	65	6†	22	10†	36	2.53	+0.11	0.80	.....	8	19	6	5	e.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	27	37.2	-1.5	59	22	11	29	36	2.23	+0.09	1.06	1.0	6	9	3	18	.....	C. P. Darling.
Lebanon	Lebanon	469	84	41.3	-0.9	66	15	23	25†	33	3.50	+0.61	1.61	1.0	8	16	9	5	w.	S. B. Benzing.
Lewisburg	Union	450	50	40.4	+1.3	65	15	13	26	34	3.50	+0.99	1.14	2.0	10	9	12	9	w.	Prof. W. G. Owens.
Lock Haven	Clinton	580	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles Dunn.
Lykens	Dauphin	680	10	39.0	.....	64	15	12	26	37	4.74	.....	1.77	1.5	8	16	6	8	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	34	40.5	-0.1	64	15	19	1	35	5.08	+1.75	1.84	2.8	8	19	1	10	w.	R. K. Wintermute.
Millintown	Juniata	445	21	41.0	+0.4	65	15†	25	25	35	3.35	+1.51	1.72	1.2	8	9	4	17	w.	Wellington Smith.
Montrose	Susquehanna	1,720	22	36.2	-0.7	60	22	15	30	30	3.29	+0.89	0.79	2.0	7	11	7	12	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	13	36.4	.....	62	15	13	29	33	4.83	+2.41	1.20	1.2	9	11	10	9	w.	A. H. Boatman.
Narberth	Montgomery	300	6	42.4	.....	69	15	23	29	32	4.47	.....	2.45	0.2	9	14	4	12	sw.	Charles Decker.
Neshaminy Falls††	Bucks	60	36	39.8	.....	69	15	19	24	41	1.50	.....	1.05	0.5	6	18	7	5	w.	North Springfield Water Co.
Palmerton	Carbon	398	8	37.7	.....	62	15	17	29	33	3.41	.....	1.22	2.0	8	0	8	22	sw.	F. G. Breyer.
Philadelphia (a)	Philadelphia	114	54	45.4	-0.3	68	15	27	29	25	2.97	-0.09	1.45	0.2	8	11	8	11	nw.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	9	43.7	.....	69	8†	25	24	30	2.91	.....	1.03	0.2	7	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	.....	44.8	.....	69	15	27	24	25	3.29	.....	1.38	.....	9	11	9	10	w.	Atlantic Refining Co.
Philadelphia-Gtn	Philadelphia	113	.....	45.4	.....	70	15	27	24†	29	3.57	.....	1.67	0.3	9	12	6	12	.....	Julius Bernstein.
Phoenixville	Chester	100	14	40.8	.....	65	15†	21	24†	28	2.83	.....	1.40	T	8	20	8	2	w.	North Springfield Water Co.
Quakertown	Bucks	496	40	39.6	-1.4	65	15	19	25	30	3.05	-0.11	1.20	1.9	9	15	6	9	nw.	John E. Benner.
Reading	Berks	325	55	42.4	-0.1	67	15	25	30	29	3.30	+0.18	1.70	0.5	11	11	10	9	nw.	U. S. Weather Bureau.
Seranton	Lackawanna	805	30	39.8	-0.7	62	15	20	29	28	2.87	+0.58	0.78	1.6	11	7	6	17	sw.	U. S. Weather Bureau.
Sellingsgrove	Snyder	455	35	40.0	-1.5	65	15	20	25	34	2.57	-0.11	0.73	3.0	7	8	11	11	sw.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	29	42.6	.....	65	15†	26	29	31	3.70	+0.82	2.38	T.	9	10	10	nw.	W. S. Guiles.	
State College	Center	1,217	43	38.0	-1.7	62	15	17	29	31	3.04	+0.74	1.11	2.8	10	8	14	8	w.	C. A. Kern.
Towanda	Bradford	754	30	38.6	-0.7	63	15	16	29	34	2.02	+0.02	0.83	1.7	10	8	7	15	w.	Ilram E. Bull, C. E.
Wellsboro	Tioga	1,419	59	35.0	-2.5	57	15	10	26	37	2.72	+0.09	1.10	2.0	8	14	4	12	sw.	George W. Hill.
West Chester	Chester	455	37	40.2 ^d	-2.6	66 ^d	15	21 ^d	24	26 ^d	2.57	-1.06	1.46	T.	7	17	7	6	nw.	Arthur M. Hay.
Williamsport	Lycoming	521	38	40.2	-0.6	60	15†	20	29	31	3.55	+1.15	1.92	1.0	8	17	0	13	nw.	George A. Beck.
York	York	400	37	41.1	-1.4	68	15	18	25	40	2.14	-0.41	1.09	T.	7	16	6	8	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam††	Beaver	700	32	39.8	.....	63	8	17	26	33	3.30	+0.96	1.04	1.5	10	11	3	16	sw.	U. S. Engineer.
Bradford	McKean	1,427	10	37.9 ^e	.....	58 ^e	8	15 ^e	30	37 ^e	4.19	.....	0.86	5.9	15	10	4	16	w.	City Engineer.
Bradys Bend††	Armstrong	930	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Edward W. Dewey.
Brookville	Jefferson	1,173	34	34.7 ^b	-2.9	58 ^b	11	9 ^b	29	36 ^b	5.39	+2.55	1.30	4.0	.....	14	5	11	.....	John Fawcett.
Claysville	Washington	1,150	21	39.3	-2.2	65	8	15	29	32	3.06	+1.12	0.9							

Daily Precipitation for November, 1925

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh						.32		.07	.33				1.23	T.		.67										.09	.35	.11				3.17	
Altoona	Juniata					.03	.17	.14	.47				.70	1.23		.40	T.						.02	T.		.14		.25	.02				3.67	
Ansonia|||	W. Br. Susq.					.06			1.02	.03				1.26	T.		.51	T.						T.	T.		.08	.22	.03	T.			3.22	
Baker's Summit	Juniata					.20	.26	.27					1.20	.72		.43																	3.38	
Bethlehem	Lehigh					.38		.48					.03	.92		.50											.09	.46					2.86	
Biglerville	Susquehanna					.21	*	.54					2.45							T.				T.		.04		.55					3.79	
Bloersville	Lower Susq.					.10	.37	.50					1.70			.17										.05		.83			.05		3.77	
Bustleton	Lower Del.		.07	.05				.55					.35	1.23		T.	.75									.08		.35					3.43	
Canton	N. Br. Susq.					.08	*	.64	.01				*	2.01		.40										.19		.32	.01				3.66	
Carlisle	Lower Susq.		T.			.13	.24	.37	.28				.68	1.27		.18				T.						.10		.48	T.				3.60	
Catawissa	N. Br. Susq.					.06	.07	.55					.74	.14		.50	.12			.01			.01				.30	.02	.41				3.06	
Center Hall	Susquehanna					.32	.28	.24					1.86	.36		.12	.38	T.								.36	.08						4.00	
Chambersburg	Potomac					.02	.27	.25	.51				.96	.90		T.	.22									.01		.47					3.61	
Clearfield	W. Br. Susq.			T.		.03	.17	.20	.95				.75	.75		.03	.35	T.		.05				.03	T.		.10		.92	.03	T.		4.36	
Coatesville	Lower Del.		.05			.24	.02	.26					.67	.95		.44										T.		.21				.03	2.87	
Colebrook	Lower Susq.					.01	.25	.17	.40				*	1.72		.51	T.						T.	T.	T.		.05		.37	T.	T.		3.48	
Conshohocken	Schuylkill		.05					.49					.12	2.22		.41										.01		.03		.25	T.		3.57	
Cresson|||	Juniata					.28		.50	.15				2.08	.12	*	.40	.12	T.		*	.03			.02	.01		.02	.10		.13	.12		4.08	
Doylestown	Lower Del.		T.			.29		.20					.04	1.51		.30										.11		.24					2.69	
Driftwood|||	W. Br. Susq.					.18		.74	.10				.11	.08		.50	.04	T.		.09	.03			.02	T.		.64	.55		.18	.10		4.35	
Emporium	do.				.12	.48	.40	.70	T.				.58	.99		.30	.32			.08				.06	T.		.20	.49	T.				4.72	
Ephrata	Lower Susq.		T.			.32	.05	.59					.48	.47		.49								T.	T.		.02		.33			T.	2.75	
Forest City	N. Br. Susq.					.35		.56					1.91	.08		1.08						.05	T.		.04		.12		.29	.05			4.53	
Freeland|||	Lehigh		T.		T.	.33		.52	.64				1.84	.10		1.45	T.							.08	T.	T.	.28	.18	.31	T.			5.73	
George School	Lower Del.	T.	.03	.03	T.	T.	.22		.25				.35	1.48		.67	T.									.17	T.	.29			T.		3.52	
Gettysburg	Potomac					.20	.25	.26					.60	2.07		.37											.02		.43				4.20	
Girardville|||	Susquehanna																																	
Gordon	Lower Susq.					.17	.02	1.02					.48	2.02		1.10								.06		.50	.20	.50	T.				6.07	
Gouldsboro||	Lehigh					.08		.40	.24				1.54			.54									.05		1.15	.40	.35				4.75	
Graterford	Schuylkill		.12	.03		.04		.76					.63	.29		.64										.09		.18					2.78	
Hamburg	Schuylkill					.47		.62					.96			.69										.20		.54					3.48	
Hanover	Lower Susq.		.02			.22	.19	.26					.53	.51		.37										.02		.28					2.40	
Harrisburg**	do.		T.			.10	.35	.32					2.36	.04		.43	.02						T.		T.	.06	.05	.37	T.		T.		4.32	
Harrisburg East	do.					.33	.12	.54					2.32	T.		T.	.40								.01		.05		.43				4.20	
Harrisburg North	do.					.28		.73					2.11	.02		.33									.03		.06	.39					3.95	
Hawley|||	Upper Del.					.25		.10	.45				1.16	.02		.80									T.	.04	.32	.06					3.20	
Holtwood||	Lower Susq.					.22							1.33														.14	.03					1.72	
Huntingdon	Juniata				*	.26	.16	.32					.55	.97		.21										.10		.41	T.				2.98	
Hyndman	Potomac		.13	.14	.30	.25							1.02	.79	.12	T.	.14	T.						T.		T.		.23					3.12	
Jersey Shore	W. Br. Susq.					.13																												
Lancaster	Lower Susq.		.02			.26	.03	.50					.18	.80		.42												.32					2.53	
Lansford|||	Lehigh					.25			.78				1.70	.02		.97											*	.41	.12				4.25	
Lawrenceville	N. Br. Susq.					.14	.40	.40					1.06	T.		.48				T.				T.	T.	T.	.10		.05				2.23	
Lebanon	Lower Susq.					.27	.25	.20					1.61	T.		.71								T.	T.	T.	.06		.38			T.	.02	3.50
Leolyn|||	W. Br. Susq.					.13	.10	.43					.40	1.14		T.	.42			.03					.05		.15		.65				3.50	
Lewisburg	do.					.13	.10	.43					.40	1.14		T.	.42			.03					.05		.15		.65				3.50	
Lloyd	do.																																	
Lock Haven	do.																																	
Lykens	Susquehanna					.22	.30	.69					.69	1.77		.52									T.		.11		.44	T.			4.74	
Mauch Chunk	Lehigh					.28	.06	.74					.17	1.84		1.09										.30		.60					5.08	
Millintown	Juniata			T.	.23	.20	.33						.68	1.04		.12								T.		.12		.63					3.35	
Montrose	N. Br. Susq.				.47		.43						.20	.79		.50									1	T.	.20		.70				3.29	
Morris Run	N. Br. Susq.			T.	.08	.15	.54						.46	.93		.40									T.		.16		.43				3.15	
Mount Pocono	Upper Del.																																	
Mount Union|||	Juniata					.18		*	.50				1.30			.23											.05		*	.55			2.81	
Muncy Valley	W. Br. Susq.				T.	.40	.19																											

Daily Precipitation for November, 1925—Continued from page 53

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio					.23		1.04					.98	.04		.30			.07			.05	T.		.14	T.	.33	.12					3.30	
Beaver Falls|||	Beaver					.30	T.	1.00	T.				.95	.05		.25	T.	T.	.03				.02	T.	.10	.03	.44	.12	T.				3.29	
Bradford	Allegheny					.02	.08	.10	.40				.19	.90	.12		T.	.28		.22	T.		.06	.70	.03	.15		.86	.08	T.			4.19	
Bradys Bend	do.																																	
Brookville	do.					.25		1.00					1.08	.22		.74	T.			.20				T.		1.30		.55	.05				5.89	
Clarion	do.																																	
Claysville	Ohio					.18	.07	.44	.32				.92	.19		.12	.35	T.		.08			.03	T.		.04		.32					3.06	
Cloe	Allegheny					.20		.60	.40				1.20	.24		.80			.12			.05		.05		.28		.35					4.24	
Clymer	Conemaugh							.37	.52				.32	.82			.79	.05		.06			*	.03		.20		.51					3.67	
Colegrove|||	Allegheny																																	
Confluence|||	Youghiogheny					.23		.56	.10				.96	.14		.23	.04			.03			.04	.03	.06		.22	.20					2.84	
Coraopolis|||	Ohio					.30	T.	1.02	1.				T.	.98	.02		.27	T.		.12				.04		.15	T.	.18	.04	T.			3.12	
Corry	Allegheny					.29	.03	.32	.39	.01			.32	.82		.61	.72	.27		.38	.02		.07	.10	.10	.09		.80	.07	.01			5.42	
Coudersport	do.							.45	.01				1.10	.05		.40	.50			.04		.05		T.	T.	T.		.47		.09			3.16	
Creekside	Allegheny					*	.28	*	.84				1	.98		*	*	1.07		.11		*	*	.16		.20	*	.42				.09		5.06
Derry	Conemaugh					.05	.18	.14	.39				.70	.47		.34	.34			.06			.07		.20		.27						3.21	
Ebensburg	Conemaugh					.22	1.11	.22	.36				.52	.87		T.	.36			.05					.20		.65						4.56	
Elk Lick	Youghiogheny							.73	.30	.40			1.45	.49				.20							.20		.70						4.47	
Falls Creek	Allegheny					T.	.26	*	.86			.49	.78			.66	T.	.03		.08			T.	.08	.02	.22		.62	.04				4.14	
Franklin|||	Allegheny					.28		.65	.04				.95	.10		.46	.18		.19			.08	T.	.03	.18	.85	.19	.04					4.22	
Freeport|||	Allegheny					.40		.90					1.25			.49			.13			.10		.10		.30							3.67	
Greensburg	Youghiogheny					.06	.15	*.20	.30				.94	.39		.42	.26	T.		.06			.04	.02	.12		.18	T.	T.				3.14	
Greenville	Beaver					.30	T.	*	.78	T.			*	1.09	.02	.30		.29		.24			T.	.07	.22	.88	.06						4.23	
Grove City	Beaver					.41	T.	.33	.20				.54	.59		.22	.16	.18		.15			.02	.01	.01	.04	.22	1.21	.04	.02	T.		4.35	
Herr's Isl. Dam|||	Ohio					.21	T.	.73	T.				T.	1.15	.01		.30	T.	T.	.09	T.			.04	.03	.21	T.	.15	.04	T.			2.96	
Indiana	Conemaugh					.13	.04	.30	.33				.63	.77		.11	.98		.19			.03		.03		.23		.44					4.18	
Ingram	Ohio					.18	.09	.50	.48				.97	.26		.17	.11	T.		.08			.05	.01	.15		.22	T.					3.27	
Irwin	Youghiogheny					.06	.10	.24	.08				.94	.22		.15	.13		.10			.10		.03		.13	T.	.13	.02				2.33	
Johnstown	Conemaugh					.10	.07	.31	.37				.90	.62		.14	.25	.01		.03	.04		.07	.04	T.	.17		.46	T.				3.58	
Ketner	Allegheny					.10	.08	.35	.48				.52	.67		.15	.47	.10	T.	.18			.05		.03	.20		.68	.05				4.11	
Kregar|||	Youghiogheny					.33		.65	.22				1.50	.46		.63	.02			.04			.06	.03		.20	.13	.23					4.50	
Linesville|||	Beaver					.18	.02	.63	.03				.86	.15		.30	.38		.19			.11	.02	.01	.11	.59	.13	.05					3.76	
Lock No. 4|||	Monongahela	T.				.14		.30	.02				T.	1.10	.02		.71	.01		.05	.02		.05	.02	.12	.06	.07						2.69	
Lycippus	Conemaugh					.07	.26	.10	.59				.65	.45		.59			.04			.05	.03		.12	.24	T.						3.19	
Martin	Monongahela					.22		.64	.02				.01	1.06	.04		.68	.03		.03	.02		.02	T.	.02		.07	.13					2.99	
Mount Lebanon	Ohio																																	
New Castle|||	Beaver		.27			.28	.02	.60	T.				.92		T.	.29			.07			T.	.06	.10	.30	.05	1.20				T.		4.16	
Newell	Monongahela					.04	.14	.20	.09				.68	.19		.09	.51	T.		.03			.02	T.	.10	.03		.03					2.12	
Parkers Landing|||	Allegheny					.31		.76	T.				.97	.14		.35	.15		.17			.17	T.	T.	.05	.60	1.06	.16	.10				4.82	
Pennline|||	Beaver					.12	.03	.71	.03				.91	.10		.26	.26		.15	.01		.11	T.	.05	.04	.57	.13	.04					3.52	
Pittsburgh***	Ohio					.19		.60	.07				1.11	.09		.27	.01	T.		.06	T.	.03	.02	T.	.10		.15	T.					2.70	
Ridgway†	Allegheny					.68		.49	.45				.62	.79			.69	.07		.34					.27		.54						4.94	
Saltsburg|||	Conemaugh					.06		.64					1.38	.06		.80	T.		T.	.09			.03	.02		.17	.02	.21					3.48	
Saegertown|||	Allegheny					.20		.65					1.06	.20		.50	.75		.28			.15		.01		.76		.25					4.81	
Sharon|||	Beaver					.27		.47					.83	T.		.18	T.		.15				T.		.05	.14	.68	T.					2.77	
Somerset	Youghiogheny																																	
Springdale|||	Allegheny					.28		.78					1.20	.02		.54			.08	.02			.10		.17	.01	.23	.05	T.				3.48	
Uniontown	Monongahela					.08	.17	.13	.63				.65	.17		.21	.84			.07			.02	T.		.11		.29					3.37	
Unity Reservoir†	Youghiogheny	T.				.07	.21	.15	.24				.60	.52		.12	.58						.05	.05		.18		.25					3.02	
Vandergrift	Conemaugh					.05	.15	.17	.70				.80	.45		.40	.60		.10			.04		.02		.20		.48					4.14	
Warren	Allegheny					.03	.02	.50	.13				.50	.40	.08	.50	.52	.05		.24			.03	.03	.05	.05	.05	.68	.03				3.89	
Washington	Ohio					.46	.02	.57	.15				1.07	.11		.36	.01	T.		.04			.04	T.		.09	T.	.23	T.				3.15	
Waynesburg|||	Monongahela																																	
Westford|||	Beaver							.39		.65				.95			.27		.40						.08		.83	.15	.07				3.79	
West Newton|||	Youghiogheny					.17		.45					.98			.81			.08						.18		.06	.05					2.78	
Zelienople	Ohio							.49	1.10	T.				T.	1.05	.04		.20	T.	T.					.06	.16	.07	.52	.12	T.			3.81	
Lake Drainage.																																		
Erie***	Lake Erie					.04		.45	.11	T.			.45	.24	.01	.28	.11		.05	.20			.10	.02	T.	T.	T.	.84	T.	T.	T.		2.90	
West Bingham	Genesee					.30	.05	.55					.06	1.15			T.	.10		.15	T.		T.		.10		.35						2.81	

Daily Temperatures for November, 1925

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Allentown.....	Maximum	49	46	49	51	52	60	62	63	42	46	53	54	60	57	65	46	44	49	47	55	56	61	40	36	34	41	45	41	32	43	49.3
	Minimum	25	29	33	32	33	36	37	34	30	30	30	30	35	35	37	38	30	32	33	35	30	30	26	25	25	28	34	28	24	31.7	
Altoona.....	Maximum	43	49	51	48	48	53	46	52	36	49	61	51	50	55	58	61	33	49	47	46	54	55	33	30	35	37	45	40	29	45.9	
	Minimum	17	30	30	28	39	44	38	34	23	26	28	32	44	42	31	32	29	24	32	35	36	33	23	20	25	32	27	18	21	29.5	
Beaver Dam.....	Maximum	48	47	55	53	52	55	53	63	38	50	62	58	55	58	58	58	38	52	52	50	56	52	39	35	36	38	53	39	30	41	49.0
	Minimum	25	22	27	33	41	45	31	35	24	30	29	37	46	43	35	33	32	24	38	33	28	34	25	20	28	17	37	23	18	42	30.7
Bradford.....	Maximum	53	54	51	50	50	49	45	58	.....	57	52	50	46	55	54	32	46	50	45	54	48	42	30	35	40	42	39	.....	33	46.7	
	Minimum	16	24	26	22	42	42	27	32	.....	26	31	41	41	32	30	29	17	34	37	32	34	23	22	27	27	34	23	.....	15	29.1	
Bradys Bend.....	Maximum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brookville.....	Maximum	48	54	53	52	51	52	54	57	37	47	58	50	51	55	57	37	33	.....	48	43	52	.....	47	31	34	38	48	34	29	35	45.9 ^a
	Minimum	12	22	20	19	40	26	25	30	25	26	24	30	43	29	31	31	18	.....	15	27	29	.....	19	18	16	12	29	14	9	19	23.5 ^b
Carlisle.....	Maximum	50	45	62	55	51	63	53	57	48	53	60	53	57	60	69	60	44	57	55	62	64	68	54	39	37	37	45	45	37	36	52.5
	Minimum	22	30	33	26	33	45	30	38	31	29	27	31	46	45	30	37	36	25	27	32	31	25	28	25	16	18	33	32	25	24	30.3
Catawissa.....	Maximum	53	47	53	54	57	64	61	58	45	52	57	55	54	58	65	43	45	53	55	53	59	45	36	37	37	47	46	44	34	36	50.1
	Minimum	18	27	34	23	32	36	29	45	29	25	29	29	28	26	32	42	29	30	34	22	31	29	28	26	32	20	32	18	36	34	29.2
Chambersburg.....	Maximum	46	44	51	51	50	60	52	57	42	49	55	50	56	59	66	64	40	50	55	53	59	61	49	36	35	43	47	46	34	33	49.8
	Minimum	21	30	36	29	35	45	32	40	29	29	26	33	45	49	31	37	35	25	28	28	29	28	23	23	23	23	34	31	24	26	30.9
Claysville.....	Maximum	50	57	53	53	51	56	54	63	39	51	63	52	58	58	64	52	38	52	44	47	55	49	35	34	42	42	53	39	30	42	49.1
	Minimum	22	25	22	31	40	44	31	34	19	26	31	38	45	40	32	31	28	23	39	35	30	34	24	18	26	17	37	27	15	22	29.5
Clearfield.....	Maximum	53	60	58	56	49	58	49	45	48	52	65	60	53	64	59	56	34	52	43	46	56	52	32	34	35	43	43	41	34	39	49.1
	Minimum	15	24	24	22	36	43	29	26	10	27	28	24	24	20	32	24	20	20	28	35	29	25	28	22	24	13	32	27	16	30	25.4
Coatesville.....	Maximum	49	42	49	47	53	50	52	63	41	46	52	55	60	58	66	65	41	47	50	63	52	55	49	34	36	40	51	46	32	38	49.4
	Minimum	26	28	32	28	28	40	29	40	29	21	24	26	50	49	27	35	31	24	25	30	28	26	27	21	19	24	32	28	22	22	29.0
Corry.....	Maximum	53	52	55	56	49	49	45	59	34	50	58	50	49	45	51	50	32	44	41	41	55	48	32	29	35	42	41	34	31	33	44.8
	Minimum	18	22	27	29	37	34	27	30	26	26	33	35	41	39	34	29	27	20	36	35	30	31	22	20	25	25	32	23	12	13	27.9
Emporium.....	Maximum	47	50	50	51	52	52	48	57	36	46	58	50	52	52	57	57	35	46	43	43	53	50	34	30	34	38	44	38	30	33	45.5
	Minimum	15	24	21	21	40	32	28	35	26	25	26	32	45	35	30	34	32	20	32	38	31	26	22	23	23	27	35	26	18	18	28.0
Erie.....	Maximum	50	48	47	55	53	48	64	64	36	49	58	51	52	46	54	38	37	47	47	44	58	49	32	33	39	38	42	36	30	36	46.0
	Minimum	29	32	35	38	41	39	37	33	30	34	39	47	44	41	36	33	32	31	40	37	37	31	26	25	32	31	36	27	25	23	34.0
Franklin [§]	Maximum	50	53	57	53	52	54	61	48	41	53	61	52	53	54	54	38	35	48	48	43	57	46	38	37	40	45	45	37	38	42	47.8
	Minimum	18	20	25	27	42	29	33	25	24	28	29	35	40	33	33	29	18	19	35	27	27	24	23	22	20	22	23	14	15	26.2	
Gettysburg.....	Maximum	49	49	60	51	52	63	52	59	46	53	56	49	59	62	67	65	44	54	57	57	63	67	56	41	35	45	48	48	35	35	52.6
	Minimum	25	32	37	29	34	45	32	43	30	26	27	33	49	48	42	37	34	25	24	32	31	32	26	23	23	24	33	24	25	22	31.6
Greensburg.....	Maximum	55	60	55	52	52	55	59	65	36	51	61	52	53	55	67	52	35	52	44	46	53	50	37	32	42	42	55	40	31	42	49.4
	Minimum	23	29	28	31	39	45	35	35	24	31	33	39	45	41	32	30	25	36	37	32	35	23	20	26	13	37	28	20	25	30.9	
Grove City.....	Maximum	43	50	50	50	50	50	48	60	37	50	61	56	55	56	58	52	38	47	50	55	50	52	34	32	33	34	39	34	29	36	46.3
	Minimum	20	25	28	32	38	40	29	33	23	30	31	36	43	39	31	30	29	22	22	22	33	30	24	22	20	25	34	26	26	21	28.8
Hamburg.....	Maximum	49	46	51	50	50	55	50	51	46	52	50	53	53	48	42	42	42	44	42	52	54	59	44	46	34	44	43	44	34	34	47.5
	Minimum	23	34	36	34	30	45	36	43	32	28	26	30	47	33	34	36	30	27	29	30	26	27	24	16	18	30	30	15	23	30.2	
Harrisburg.....	Maximum	49	45	54	46	52	60	50	62	40	48	54	55	57	59	65	51	41	49	51	52	56	61	36	36	38	40	46	42	32	36	48.8
	Minimum	30	39	40	31	38	46	38	38	34	32	34	37	50	50	37	38	35	34	34	36	40	35	30	28	28	30	34	30	26	27	35.2
Hawley.....	Maximum	48	46	50	51	50	56	53	59	46	41	52	52	55	50	60	59	39	48	45	47	55	62	53	30	32	38	45	45	31	33	47.7
	Minimum	12	20	31	17	22	43	24	44	25	20	25	44	46	29	36	34	26	24	29	35	24	27	23	22	28	28	30	14	14	33	27.2
Huntingdon.....	Maximum	49	46	53	50	50	57	55	58	41	52	61	58	55	58	63	64	39	55	52	50	59	60	49	33	32	42	46	41	35	34	49.9
	Minimum	19	26	31	22	37	44	35	40	37	29	23	38	47	49	63	35	34	21	29	29	28	24	25	25	17	14	36	31	17	18	29.5
Indiana.....	Maximum	53	58	53	52	53	56	50	60	39	49	61	55	52	57	62	60	45	49	45	50	53	50	35	33	39	43	54	34	31	37	48.9
	Minimum	28	29	30	31	32	31	30	33	21	27	31	37	44	40	32	38	30	20	30	34	35	30	25	20	14	10	28	25	15	24	28.5
Johnstown.....	Maximum	49	56	54	48	51	55	50	58	38	52	62	50	52	55	63	51	40	51	49	46	54	52	37	30	39	41	50	36	33	38	48.0
	Minimum	20	28	34	28	43	39	34	34	25	32	30	34	46	43	34	33	31	25	32	38	34	32	33	22	26	21	36	26	23	25	31.0
Lancaster.....	Maximum	53	52	55	55	52	65	60	61	51	50	54	51	62	60	64	65	59	53	49	56	56	49	55	48	37	43	51	49	46	37	53.3
	Minimum	28	33	40	35	27	45	28	44	29	22	24	28</																			

UNP

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

FEB 8 1926

UNIVERSITY OF ILLINOIS

VOL. XXX.

DECEMBER, 1925.

No. 12

GENERAL SUMMARY.

The temperatures for the month averaged near the normal with no unusual extremes. The maximum of 62° had been exceeded nearly every December since the inauguration of the State Weather Service, while the minimum of 15° below zero has been exceeded many times in December. A fairly large temperature excess accumulated gradually before Christmas, but was counterbalanced by the constant daily deficiency of from 8° to 12° that prevailed thereafter. The precipitation was but little more than one-half of the December normal, and much less than the usual proportion of it occurred in the form of snow. More than one-half of the total precipitation occurred during the first week. Thereafter the daily amounts were generally small, but after the 20th precipitation occurred almost daily in the western portion of the State. The snowfall was very light in the eastern half of the State and most of the wheat fields were unprotected. As a result there was more or less damage to the grain roots by the alternate freezing and thawing of the soil. Field work was mostly finished by the middle of the month, and thereafter there was considerable marketing of grain. Building construction and road work continued and made fair progress until Christmas, but were practically suspended at that time for the remainder of the month. There were no damaging storms although strong winds prevailed at times, especially during the cold period after Christmas. The streams were at moderate stages most of the month, but there were no complaints of a shortage in the water supply.

TEMPERATURE.

The mean temperature for the State, as determined by the records of 82 stations was 30.7°, or 0.2° below the December normal. The highest mean was 36.6° at the Philadelphia Weather Bureau, and the lowest was 24.2° at West Bingham. The highest temperature recorded during the month was 62° at Derry on the 4th. The lowest for the month was 15° below zero at Saegertown on the 30th, and at Wellsboro on the 28th. The great-daily range of temperature was 40° at Clearfield on the 7th.

PRECIPITATION.

The average precipitation for the State, as deduced from the records of 131 stations, was 1.72 inches, or 1.46 inches below the December normal. The greatest monthly amount was 3.93 inches at Snow Hill, while the least for the month, 0.69 inch, was reported from Beaver Dam. The greatest amount recorded in any 24 consecutive hours was 1.55 inches at Snow Hill on the 3d. The snowfall averaged 3.8 inches for the entire State. The greatest monthly snowfall reported was 27.8 inches at Corry. The greatest 24-hour snowfall was 5.5 inches at Corry on the 25th.

SUNSHINE, HUMIDITY AND WINDS

1920										
Stations	Sunshine			Humidity			Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total movement, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	Highest	Direction	Date
Erie.....	28.4	284.5	10	77	76	12,733	17.1	48	s.	5
Harrisburg.....	110.5	290.6	38	67	65	6,558	8.8	30	nw.	23
Philadelphia.....	128.7	290.6	44	71	64	7,649	10.3	35	ne.	3
Pittsburgh.....	96.1	287.3	33	76	70	10,372	13.9	43	sw.	5
Reading.....	102.6	290.6	35	79	73	6,818	9.2	27	nw.	27
Scranton.....	127.2	287.3	44	86	76	6,100	8.2	28	sw.	9

* For any five-minute period.

COMPARATIVE DATA FOR DECEMBER

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	32.5	62	-10	3.14	5.57	1.44	8	8	15
1889.....	39.6	73	0	2.77	5.05	0.85	11	9	11
1890.....	27.2	59	-11	3.97	9.68	1.72	7	8	16
1891.....	38.4	68	-3	4.09	6.53	2.00	12	8	11
1892.....	27.8	70	-13	1.69	4.37	0.40	7	9	15
1893.....	32.2	70	-7	3.06	6.07	1.41	6	11	14
1894.....	32.4	66	-28	3.95	5.93	2.27	10	9	12
1895.....	34.2	70	-10	3.22	6.55	1.40	10	9	12
1896.....	30.6	67	-13	1.20	2.62	0.40	10	9	12
1897.....	33.0	73	-6	3.95	6.25	1.28	6	8	17
1898.....	29.8	68	-11	2.98	4.79	1.31	10	8	13
1899.....	31.5	73	-11	3.04	6.00	1.18	10	10	11
1900.....	31.2	65	-2	2.08	4.16	0.40	8	9	14
1901.....	29.1	77	-18	5.91	10.26	2.62	7	9	15
1902.....	28.4	68	-12	5.54	8.51	1.97	7	7	17
1903.....	25.4	60	-14	2.66	4.83	0.92	8	9	14
1904.....	25.8	71	-19	2.48	3.71	1.32	7	7	17
1905.....	33.6	65	-5	3.57	5.48	0.95	10	7	14
1906.....	30.8	67	-14	3.97	7.08	1.69	5	5	21
1907.....	33.2	68	-8	4.30	7.89	1.85	7	8	16
1908.....	32.0	74	-2	2.86	4.61	1.26	9	8	14
1909.....	27.0	71	-10	3.39	8.50	1.19	9	8	14
1910.....	24.4	68	-14	2.65	4.41	0.64	8	6	17
1911.....	36.3	70	5	3.27	5.99	0.75	7	5	19
1912.....	34.4	74	-8	3.27	6.48	1.70	9	7	15
1913.....	34.2	66	-7	2.63	4.11	0.69	9	6	15
1914.....	27.3	69	-28	4.63	7.74	2.43	8	5	18
1915.....	29.4	70	-7	4.06	6.53	1.36	6	8	17
1916.....	29.7	73	-12	3.07	6.38	0.59	11	9	11
1917.....	21.5	52	-28	1.78	5.16	0.60	10	8	13
1918.....	36.6	72	-1	3.38	5.74	0.90	9	7	15
1919.....	25.3	66	-23	2.61	4.75	0.95	9	8	14
1920.....	33.4	68	-7	3.28	6.77	1.53	7	9	15
1921.....	31.6	66	-11	2.59	6.25	0.91	8	8	15
1922.....	31.5	69	-9	2.75	4.55	1.19	10	8	13
1923.....	39.6	71	1	4.99	8.55	2.42	9	7	15
1924.....	29.8	69	-23	2.13	4.42	0.56	7	7	17
1925.....	30.7	62	-15	1.72	3.93	0.69	8	7	16

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.9	6.8	7	2.1	31	18
Phillipsburg.....	Delaware.....	5.0	9.5	6	2.4	23	22
Mauch Chunk.....	Lehigh.....	4.5	6.3	6	3.9	20	12
Wilkes-Barre.....	Susquehanna.....	7.4	13.6	7	4.0	29	20
Williamsport.....	Susquehanna.....	3.1	5.9	7	0.6	19	20
Harrisburg.....	Susquehanna.....	5.4	7.9	8	4.3	22	17
Freeport.....	Allegheny.....	6.4	9.8	1	4.1	23	22
West Newton.....	Youghiogheny.....	1.6	2.5	7	1.0	20	20
Lock No. 4.....	Monongahela.....	13.8	15.8	6	12.8	22	31
Pittsburgh.....	Ohio.....	8.8	11.5	1	6.7	31	22
Beaver Dam.....	Ohio.....	8.9	12.5	1	4.6	31	30

Climatological Data for December, 1925

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days			Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear			Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	13	32.4		56	5	9	28	33	2.32	-1.53	0.71	0.7	9	15	11	5	nw.	John A. Frick.
Altoona	Blair	1,615	38	28.3	-0.7	48	8	-1	27	23	1.29	-1.06	0.63	9.0	17	15	2	14	w.	Lewis E. Biller.
Bethlehem	Northampton	295	41	33.0	-0.1	56	6	7	27	26	2.34	-1.16	0.74	3.8	9	11	8	12	nw.	Lehigh University.
Biglerville	Adams	652	3	33.0		52	13	7	27	25	1.86		0.68	0.2	7	13	2	16	w.	R. C. Walton.
Bustleton	Philadelphia	125	6	34.4		58	6	11	27	26	1.40		0.70	T.	8	14	5	12	w.	Experiment Station.
Canton	Bradford	1,300	27	27.6		49	5	-4	27	27	3.24		0.90	7.1	13	2	8	21	w.	Marble Laboratory, Inc.
Carlisle	Cumberland	467	58	33.8	+2.5	56	8	5	30	32	1.99	-1.02	0.68	T.	7	18	3	10	nw.	Prof. C. E. Miller.
Catawissa	Columbia	520	28	32.0	+0.4	53	6	5	27	32	2.07	-0.93	1.27	0.5	7	19	1	11		H. H. Yetter.
Center Hall	Center	1,272	29	31.8	+2.8	56	2	1	27	34	1.93	-0.82	0.75	1.5	8	7	11	13		S. W. Smith.
Chambersburg	Franklin	580	25	33.0	+0.1	54	9†	6	30	24	2.09	-0.53	0.77	0.3	8	9	10	12	nw.	William B. Spear.
Clearfield	Clearfield	1,120	15	26.6	-2.1	50	5	-6	30	40	1.21	-1.88	0.30	13.0	14	3	10	18	nw.	E. W. Hess.
Coatesville	Chester	380	37	31.6	-1.4	55	5†	7	27	28	1.22	-3.00	0.43	0.2	9	9	9	13	nw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	15	31.2		51	5	7	27	27	1.81	-1.91	0.67	T.	8	11	6	14	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	37	27.7	-1.4	52	4†	-5	30	27	1.43	-1.83	0.41	5.5	9	6	8	17	w.	T. B. Lloyd.
Ephrata	Lancaster	380	24	33.6	+2.3	54	6	10	27	26	1.27	-2.24	0.39	T.	8	9	6	16	w.	Ira J. Keath.
Freeland	Luzerne	1,970	10	24.4		46	4†	-4	27	26	3.79		1.05	11.7	16	2	12	17	nw.	Theo. Reichmann.
George School	Bucks	190	18	33.4	+1.1	59	6	11	27†	25	1.45	-2.36	0.64	0.3	10	17	3	11	w.	Prof. N. W. Swayne.
Gettysburg	Adams	600	51	34.6	+2.9	56	6	7	30	24	1.47	-1.36	0.60	0	8	9	9	13	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	21	30.2	+1.7	51	4	5	27	31	2.73	-1.54	0.82	1.0	8	12	6	13	nw.	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875	1	26.3		59	5	0	27†	21	1.69	-1.42	0.45	4.8	13	7	7	17	w.	Gustav Holtz.
Hamburg	Berks	535	32	31.4	-0.6	51	12	8	27	24	1.82	-2.03	0.62	T.	5	17	5	9	w.	State Sanatorium.
Hanover	York	600	21	34.4	+0.6	54	6	8	27†	25	1.46	-1.92	0.64		8	16	3	12	w.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	55	33.6	+0.9	54	5	10	27	20	2.01	-0.64	0.72	T.	10	8	8	15	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	6	29.0		47	4†	-2	27	27	1.57		0.75	3.1	8	8	11	9	w.	J. S. Pennell.
Holtwood	Lancaster	200	10	33.6		54	5†	10	27	26	1.14		0.43	0	6	10	1	20		H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	37	31.4	-0.1	52	9†	1	30	26	1.52	-1.56	0.69	0.3	13	4	13	14	nw.	Prof. W. J. Swigart.
Hyndman	Bedford	977	22	32.3		58	8	4	27	28	1.52		0.73	1.1	5	6	8	17		John S. Madore.
Jersey Shore	Lycoming	570	5																	C. B. McCullough.
Lancaster	Lancaster	255	37	33.5	+0.1	53	5†	7	31	28	1.46	-1.95	0.70	T.	7	18	3	10	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	27	29.0	+1.6	50	5†	-6	27	30	1.76	-0.37	0.75	5.0	8	4	4	23		C. P. Darling.
Lebanon	Lebanon	469	84	32.2	+0.3	52	5†	9	27	29	1.98	-1.64	0.67	T.	7	14	5	12	w.	S. B. Benzing.
Lewisburg	Union	450	50	32.8	+3.8	51	6	7	27	28	2.33	-0.93	0.61	1.7	11	6	8	17	w.	Prof. W. G. Owens.
Lock Haven	Clinton	580	36																	Charles Dunn.
Lykens	Dauphin	680	10	30.8		52	6	4	27	34	1.61		0.53	T.	10	13	5	13	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	34	31.2	+0.7	51	5†	5	27	24	3.36	-0.88	1.06	2.9	14	11	10	10	nw.	R. K. Wintermute.
Midlinton	Juniata	445	21	32.7	+2.5	52	12†	7	27	27	1.47	-1.61	0.65	0.7	9	12	2	17	nw.	Wellington Smith.
Montrose	Susquehanna	1,720	22	26.6	+1.0	50	4	0	28	25	2.50	-0.20	0.55	2.0	7	1	6	24	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	22																	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	13	28.6		53	4†	-5	27	29	2.65	-0.37	0.62	1.8	11	11	9	nw.	A. H. Boatman.	
Narberth	Montgomery	300	6	33.8		60	6	9	27	30	1.61		0.84	T.	13	9	7	15	nw.	Charles Decker.
Neshaminy Falls!!	Bucks	60	36	32.5		60	5	6	28	33	1.93		1.20	T.	8	15	4	12	w.	North Springfield Water Co.
Palmerton	Carbon	398	8	29.6		50	5	5	27	25	2.12		0.95	1.0	10	0	22	9	w.	F. G. Bryer.
Philadelphia (a)	Philadelphia	114	54	36.6	+0.3	61	5	13	27	20	0.96	-2.08	0.38	0.1	8	13	5	13	nw.	U. S. Weather Bureau.
Philadelphia (d)	Philadelphia	12	9	35.4		61	5	13	27	21	0.99		0.35	T.	5					Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90		36.0		61	5	12	27	18	0.88		0.23	T.	8	13	4	14	nw.	Atlantic Refining Co.
Philadelphia-Gtn	Philadelphia	113		36.0		59	6	13	27	19	1.07		0.48	T.	7	13	5	13		Julius Bernstein.
Phoenixville	Chester	100	14	31.6		52	5†	9	27	33	2.04		0.61	T.	9	16	9	6	w.	North Springfield Water Co.
Quakertown	Bucks	496	40	32.0	+0.9	57	6†	8	27	28	2.52	-1.02	0.77	0.5	12	11	10	10	nw.	John E. Benner.
Reading	Berks	325	55	34.2	+2.0	55	10	11	27	21	1.54	-1.78	0.51	0.3	11	7	10	14	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	30	31.0	+0.3	52	5	0	27	24	1.47	-1.14	0.44	1.9	13	2	5	24	sw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	35	32.2	+0.8	52	7	5	27	27	2.61	-0.60	0.60	0.2	10	4	15	12	sw.	Dr. George E. Fisher.
Shawmont!!	Philadelphia	51	29	34.6		52	5†	12	27	23	1.01	-2.88	0.45	T.	8	12	3	16	nw.	W. S. Guiles.
State College	Center	1,217	43	28.9	-0.7	49	4†	2	27	24	1.54	-1.17	0.66	0.7	11	3	16	12	w.	C. A. Kern.
Towanda	Bradford	754	30	29.9	+1.3	50	4†	-4	27	22	1.94	-0.43	0.50	1.5	13	4	3	24	w.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	59	26.2	-2.0	49	8	-15	28	30	1.58	-1.02	0.47	8.0	11	4	10	17	w.	George W. Hill.
West Chester	Chester	455	87	32.4	-0.6	56	6	8	27	25	1.02	-3.07	0.44	0.5	8	17	4	10	nw.	Arthur M. Hay.
Williamsport	Lycoming	521	38	31.8	+1.3	49	5†	6	27	26	2.21	-0.84	0.76	0.5	10	7	3	21	nw.	George A. Beck.
York	York	400	37	33.4	+0.6	57	13	2	30	32	1.08	-2.06	0.46	T.	8	10	5	16	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam!!	Beaver	700	32	31.2		56	5	-3	30	31	0.69	-2.03	0.53	1.0	6	4	8	19	sw.	U. S. Engineer.
Bradford	McKean	1,427	10	27.0†		56†	4	-2†	27	33†	2.17		0.30	17.3	16	1	7	23	w.	City Engineer.
Bradys Bend!!	Armstrong	930	7																	Edward W. Dewey.
Brookville	Jefferson	1,173	34																	John Fawcett.
Claysville	Washington	1,150	21	29.9	-2.0	58	4	-6	30	38	1.31	-1.64	0.51	2.6	12	12	2	17	n.	J. L. Melvin.
Corry	Erie	1,430	13	25.8		52	4	-2	30	27	2.57		0.40	27.8	22	5	5	21		Nevin R. Dickson.
Derry	Westmoreland	1,172	28	30.5	-1.2	62	4	-4	30	38	1.74	-1.56	0.42		14	8	9	14	w.	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	7	26.3		49	7	-1	28	29	1.44</									

Daily Precipitation for December, 1925

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh.....	.03	.11	.15	.68	.20	.71			T.	T.		T.				.06					.15	.23		T.	T.	T.						2.32
Altoona	Juniata.....	.02	T.	.09	.02	.63	.02		T.		.06	.01					.03	.01				.01	.05	.17	.02	.02	.03						1.29
Ansonia|||	W. Br. Susq.....	.10		.01	.19	T.	.65			T.	T.	T.		.05	.05		T.		T.	T.		.15	.13	.05	.03	.03	.04	.01					1.39
Baker's Summit	Juniata.....				.49	.44	.03				.06											.15	.21										1.51
Bethlehem	Lehigh.....	.01	.35	.04	.26	.74				T.							.38					.05	.10	.21			T.	T.		.13			2.34
Biglerville	Susquehanna.....		*	.68	.16	.47												T.				*	.53				.02						1.86
Bloersville||	Lower Susq.....		.10	.40	.06	.85							T.				T.					.18	.10				.05						1.74
Bustleton	Lower Del.....		.10	.70	.02	.09	.31			T.							.11	T.					.06				.01						1.40
Canton	N. Br. Susq.....	.50		.14	.90	.47				.03	.01				.01		T.	.02				.50	.36	T.	T.	.20	.03	.07		T.	T.		3.24
Carlisle	Lower Susq.....		.10	.62	.12	.68					T.		.02				T.					.03	.42			T.	T.						1.99
Catawissa	N. Br. Susq.....	.05	.13	.02	.25	T.				T.							T.					.24	.33			.06							2.07
Center Hall	Susquehanna.....			.12	.19	.56				.06							.05	.07					.13	.75									1.93
Chambersburg	Potomac.....	T.	.20	.42		.77	.03										.01					T.	.23	.42			.01	T.					2.09
Clearfield	W. Br. Susq.....	.13		T.	.08	.30			.03	.05			.13				T.	.02				.15	.20		.03	.04	.02	T.	.02	.01			1.21
Coatesville	Lower Del.....		.23	.31	.05	.43				.02							.04					T.	.05	.07			T.	.02					1.22
Colebrook	Lower Susq.....	T.	.08	.67	.09	.45	T.			T.	T.	T.					.04	T.				.16	.14	.18		T.	T.	T.					1.81
Conshohocken	Schuylkill.....	T.	.18	.60	.09	.20				T.	*						T.	T.		*	.09		T.	.04	T.			T.	T.				1.11
Cresson|||	Juniata.....		.13	.10	.05	.55					.24	*	.10					.01				.05		.03	.04	.06	.04	.05			.04		1.58
Doylestown	Lower Del.....	.07	.05	.60	.10	.09				.06			*	.05			T.					.04		.18		T.							1.13
Driftwood|||	W. Br. Susq.....			.21		.29				.06	.01	.10					.25		T.				.14	.16	T.	.04	.01	T.	T.	.03	T.		1.35
Emporium	do.....	.05		T.		.27		.12	.05	T.			.03	T.			T.	T.	T.			.05	.41	T.	T.	.25	.20	T.	T.			T.	1.43
Ephrata	Lower Susq.....	T.	.11	.32	.10	.39	T.		T.								.04					.04	.07	.20								1.27	
Forest City	N. Br. Susq.....	.06		.55	.30	.16	.54			.10			T.	T.	.04		.11					.14	.24				.02	.04	T.	T.	T.	2.30	
Freeland|||	Lehigh.....	.06	.11	.30	1.05	.40	.51			.08	.22		.01			T.	.04	T.	T.	T.		.18	.30	T.	.11	.01	.17	.24		T.	T.		3.79
George School	Lower Del.....	.01	.06	.64	.16	.07	.19			T.	T.		.01				.06					T.	.07	.18			T.						1.45
Gettysburg	Potomac.....		.13	.34	.04	.60											.01	T.	T.			.02	.20	.13								1.47	
Girardville|||	Susquehanna.....	.11	.06	.66	.29	.83		.01	.02				T.				.05	T.		T.		.08	.05	.40		.03	.02	T.	T.			2.61	
Gordon	Lower Susq.....	.11	.04	.52	.64	.82	.12															.18	.30										2.73
Gouldsboro||	Lehigh.....	.15		.25	.45	.05	.04		.06								.09	.04				.04	.04		.36	.06	.05	.05					1.69
Graterford	Schuylkill.....		.18	.07	.23	.32	.19															.08	.04										1.11
Hamburg	Schuylkill.....	.12	.20	.36		.62			T.													.04	.52				T.						1.82
Hanover	Lower Susq.....		.12	.64	.11	.29											.02					.04	.13	.11								1.46	
Harrisburg***	do.....	.01	.27	.52	.13	.62			T.	T.		.01				.01	T.	T.				.17	.22	.05	T.	T.	T.					2.01	
Harrisburg East	do.....	.02		.84	.12	.61											.05	T.					.16	.28			T.	T.					2.08
Harrisburg North	do.....			.60	.57	.15	.63										.02						.18	.38									2.53
Hawley|||	Upper Del.....	.10	.02	.21	.75										T.		.01		T.			.20	.22		.06								1.57
Holtwood||	Lower Susq.....		.43	.23	.10	.30			T.							.05						T.	.03	T.									1.14
Huntingdon	Juniata.....	.01		.08	.03	.69	.06	.01	.05				.08				.02	T.				.04	.11	.33			T.	.01					1.52
Hyndman	Potomac.....		.50	T.	.73	T.			.09	.02							T.					T.	.18	T.		T.	T.	T.	T.	T.			1.52
Jersey Shore	W. Br. Susq.....																																
Lancaster	Lower Susq.....		.10	.70	.09	.33			T.								.05					.06		.13									1.46
Lansford|||	Lehigh.....	.08	.07		1.22	.14	.82				.10					.05						*	.10	.25	.05	.02							2.90
Lawrenceville	N. Br. Susq.....	.10		.05	.46	.75	.10			T.	T.						T.	.10				T.	.10			T.	T.	T.	.10		T.		1.76
Lebanon	Lower Susq.....	T.	.17	.67	.13	.41			T.					.05			T.					.20	.35			T.	T.	T.	T.				1.98
Leolyn|||	W. Br. Susq.....																																
Lewisburg	do.....	.09	T.	.54	.37	.61	.05		T.	T.							.06	T.				.05	.14	.35		.04	.03						2.33
Lloyd	do.....																																
Lock Haven	do.....																																
Lykens	Susquehanna.....	.06	.03	.28	.22	.53	.03		T.								.02	T.				.02	.11	.31			T.	T.					1.61
Mauch Chunk	Lehigh.....	.12	.07	1.06	.19	1.06		.01	.05								.08	T.				.08	.17	.29		.08	.02	.08					3.36
Mifflintown	Juniata.....	.02	.03	.17	.05	.65	.05		T.								.01	T.					.16	.33			T.	T.					1.47
Montrose	N. Br. Susq.....	T.		.55	.30	.50	.53		T.								T.	T.	T.				.42			T.	.10	.10					2.50
Morris Run	N. Br. Susq.....	.06		.15	.77	.42	.14		.06								.03	.03				.04	.10	.18	.02	.05	.05	.10					2.22
Mount Pocono	Upper Del.....																																
Mount Union|||	Juniata.....			.28	.62	.50	.10		.02								T.	.02															

Daily Precipitation for December, 1925—Continued from page 58

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio.....			.03		T	.53			T	.04												.01	T		T	.03		.05				0.69	
Beaver Falls|||	Beaver.....	T		.04		T	.44	T		.03	.06		T					T	T	T		T	.01	T	.01	T	.15	T	.05	T			0.74	
Bradford.....	Allegheny.....	.12			T	.26	.02	T		T		.28	T	T	.25	T		T	.02	.05		T	.06	T	.06	.17	.30	.18	.15	.18	.06	T	.01	2.17
Bradys Bend.....	do.....																																	
Brookville.....	do.....																																	
Clarion.....	do.....																																	
Claysville.....	Ohio.....		.01	.21		.51	T			.10	.07		T				.01	T	T		T	.19	.04	T	.02	.10	.01		.04				1.31	
Cloeff.....	Allegheny.....	.04	.05	.06		.26			.04	.13		.03	.04					.03				.04	.37	.04	.08		.09						1.30	
Clymer|||	Conemaugh.....	T		.18		.26		T		.10	T		.06				.05	T				.21	.41	.10		T	.05						1.42	
Colegrove|||	Allegheny.....																																	
Confluence|||	Youghiogheny.....			.06		T	.20			.38							.04	T	T	T			.24	.06	.07	.03	.20	.08		T	T	T		1.36
Coraopolis|||	Ohio.....	T		.11		T	.51		T	.10		.01	T				T	T	T	T		.03	.20	T	.03	.01	.07	T	T	T	T		1.07	
Corry.....	Allegheny.....	.08				.40	.05	.04	.03	.19	.03		.08	.10	T		T	.04	.02			.08	.01	.10	.22	.32	.17	.30	.24	.05	.01	.01	2.57	
Coudersport.....	do.....		.06		.08	.46				T	T				T		T	T			.30	.25	T	T	.40	.40							1.95	
Creekside.....	Allegheny.....			.33		.32		T		T	.50					.05					.60	.40	.05		.02	.04							2.31	
Derry.....	Conemaugh.....	.04		.42	.05	.24			.19	T						.16	.03				T	.17	.11	.04	.11	.13		.02	.03				1.74	
Ebensburg.....	Conemaugh.....		.18	.02	.23				.20									T			T	.10	.11	T	.20	.20	.20	.10		.10			1.44	
Elk Lick.....	Youghiogheny.....			.18	.02	.40			.30	.20								.20				.20		.20		.40	.40	.20	.20				2.70	
Falls Creek.....	Allegheny.....	.07	.02			.28			*	.13	.07	.09					*	.08			.10	.28		*	.16	.12			.04			.03	1.47	
Franklin|||	Allegheny.....	.05				.65			.04	.14	T	.02	.05				T	.03			.03		.13	.10	.13	.20	.21	T	T				1.78	
Freeport|||	Allegheny.....			.30	.03	.23	.10	.15		.04			.13				T	T			.08	.01		.06									1.13	
Greensburg.....	Youghiogheny.....		.46	.01	.20	.02		T	.12	.04		.01	.01	T			.02	.01	.01		T	T	T	T	.18	.02	.02		.03	.02		.02	1.20	
Greenville.....	Beaver.....	.35		.65		.47		T	.39	.21		.04					.05	.05	T		T	.20	.13	.16		.20		.06	.02				2.98	
Grove City.....	Beaver.....																																	
Herrs Isl. Dam|||	Ohio.....		.25			.51		.02	.08		T	T					T	T	T	T		.03	.27	T	.05	T	.04	T	T	T	T	T	1.25	
Indiana.....	Conemaugh.....		.23	.02	.25	.03		.18									.01	.12				.20	.18		.18			.01	.01			T	1.42	
Ingram.....	Ohio.....		.25	T	.55	T		T	.13	T	T	T					T	.02	T		.02	.25	.03	T	.03	.08	T	T	.01	T		T	1.37	
Irwin.....	Youghiogheny.....	T		.51		.15		.06	T								T	T		.06	.25	.15	T	T	.02	T		T	T				1.20	
Johnstown.....	Conemaugh.....	.05	.30	.07	.01	.29	.05	T	.27			.08	.08		*	.10	.04				.02	.14	.05	.11	.15	.25	.13	.04	T		.02	.01	2.26	
Ketner||	Allegheny.....	.10		.03	.03	.28		.05	.12	.02		.06	.02				.01	.11		.05	.10	.14	.02	.10	.17	.02	.04	.02	.03			.02	1.54	
Kregar|||	Youghiogheny.....		.12	.04		.38				.39									.06			.03	.22	.10	.13	.04	.22	.03	.03	.05			1.84	
Linesville||	Beaver.....	.07		.01		.48	.01	.07			.03	.06					T	.01	T		.07	T	.08	.12	.17	.08	.05	.11	.01				1.43	
Lock No. 4|||	Monongahela.....		.42	.02	T	.45		.02	.18		.04						.01	T			T	.26	.01	.02	.02	.09	.02	.01	.01				1.58	
Lycippus.....	Conemaugh.....		.45		.33			.17	.19							.10	.02				.13	.19		.03	.17	T		T	T				1.78	
Martin.....	Monongahela.....		.45	.02	T	.39		.01	.15		.01					.01	.01	T				.18	.02	T	T	.11		T		T			1.35	
Mount Lebanon.....	Ohio.....		.12		.50			.12	T		T						.05	.01			.03	.26	.03	T	.05	.09	.01	.01					1.29	
New Castle|||	Beaver.....	.04	.06		.02	.70		T		.06		.02					T				.06		.02	.01	.05	.10	.08		T				1.22	
Newell.....	Monongahela.....		.30		.35			.08	.05		.05						.01	T				.16	.10	.03		.05	.01	.01	.01				1.66	
Parkers Landing|||	Allegheny.....	.05		.05	T	.35		.08	.30		.08	.05					T	.10			.03	.05	.20	.10	T	.20	.05	T	T	T	T	T	1.69	
Pennline|||	Beaver.....	.07	*		.01	.41	.05	.05	.02	*	.06	.05					.01	T			.04	.07	.07	.08	.13	.08	.05	.07	.01	T			1.33	
Pittsburgh***	Ohio.....		.03	.23	T	.48		T	.14		T	T	.05			T	T	.01	T			.01	.26	.02	.04	.04	.12	T	T	T			1.40	
Ridgway†	Allegheny.....																																	
Saltsburg|||	Conemaugh.....		.38	.03		.09		.16									T	.05				.40		.16	.20	.05					T	T	1.52	
Saegerstown|||	Allegheny.....	.06				.50		.08	.10		.05						T	.07			.07	.20		.20	.10	.10	.15						1.68	
Sharon|||	Beaver.....	T			*	.42		.04	.05		T	.02					T	.05	*		.05	T	.02	.02		.09	.13	T	T				0.89	
Somerset.....	Youghiogheny.....																																	
Springdale|||	Allegheny.....		.45	.01		.48		.01	.13		.02					T	T				.02	.28		.07	.03	.09	.03						1.62	
Uniontown.....	Monongahela.....	T	.32		.35	.04		.10	.25		.02					.02	T				.02	.18	.10	.03		.13		T	.05				1.61	
Unity Reservoir||	Youghiogheny.....		.45		.22			.28	.10									.12				.28	.17	.07	.17	.18	.07						2.11	
Vandergrift.....	Conemaugh.....		.40		.12			.20														.20			.25			.10		.15			1.42	
Warren.....	Allegheny.....	.05			.23	.10		.40	.22		.12	.06					.02	.02			.03	.02	.10	.35	.34	.10	.18	.08	.08		.04		2.54	
Washington.....	Ohio.....		.06	.26		.63	T		T	.16		T	T			.01	T	.01			T	.20	.02	.01	.01	.06	.01	.01	.07				1.52	
Waynesburg|||	Monongahela.....																																	
Westford|||	Beaver.....					.50	.05	T	.12													.15	T	.13	.20	.10	.21	.09	.15				1.70	
West Newton|||	Youghiogheny.....		.40		.04	.41		.05	.18								.02																1.46	
Zelienople|||	Ohio.....		.08				.40	T	T		.11	T		T			T	T				.02		.03	T			.11	T	.02		T	0.85	
Lake Drainage.																																		
Erie***	Lake Erie.....	.03			T	.36	.02	T	T	T	T	.03	.02	T	T		T	T	T		.01	.04	.09	.05	.04	.29	.02	.13	.06	T	.01	T	1.20	
West Bingham.....	Genesee.....	.12		T	.15	.35		.02	.20	.10		T	T	T			T	.																

Daily Temperatures for December, 1925

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum	43	43	46	50	56	49	47	41	32	43	43	48	34	38	35	33	45	39	41	42	33	37	35	22	23	29	28	29	82	39.0		
	Minimum	30	30	36	38	44	31	32	30	24	24	26	36	31	25	25	28	19	12	21	35	32	22	24	26	20	10	9	18	14	15	25.7	
Altoona.....	Maximum	44	40	40	43	47	42	43	48	46	25	40	44	47	32	29	30	27	23	44	37	46	44	28	30	26	9	10	14	21	25	34.1	
	Minimum	29	30	35	38	38	33	28	30	25	16	18	32	26	18	25	22	19	21	30	32	28	17	16	23	9	-1	3	8	7	13	22.5	
Beaver Dam.....	Maximum	41	48	49	54	56	41	45	48	42	46	50	51	51	37	33	33	31	28	42	41	49	45	28	35	24	19	14	20	23	30	38.4	
	Minimum	33	30	39	41	33	34	36	28	35	18	19	37	26	28	20	29	25	19	20	27	36	27	21	22	24	10	2	5	9	-3	10	23.9
Bradford.....	Maximum	44	48	48	56	52	39	39	38	44	44	44	38	30	30	28	23	39	41	42	40	27	28	28	23	10	19	18	18	25	83.74		
	Minimum	30	36	37	38	29	28	28	18	11	32	21	22	20	22	20	18	19	25	34	24	17	18	23	9	-2	7	12	2	4	20.44		
Bradys Bend.....	Maximum																																
	Minimum																																
Brookville.....	Maximum																																
	Minimum																																
Carlisle.....	Maximum	51	42	44	50	50	53	54	56	50	35	42	51	52	44	36	37	34	39	50	42	39	47	35	41	41	36	15	31	31	27	36	41.6
	Minimum	31	34	38	44	45	32	26	25	35	25	18	30	37	30	20	25	28	24	18	27	35	25	35	23	15	8	10	12	5	10	26.0	
Catawissa.....	Maximum	40	44	47	52	52	53	49	45	38	45	46	49	40	47	40	37	33	34	50	44	43	40	38	38	35	21	18	28	29	25	33	39.3
	Minimum	32	34	34	42	42	33	28	25	30	21	20	35	30	27	18	19	29	24	18	28	31	35	20	23	21	16	5	9	16	9	14	24.6
Chambersburg.....	Maximum	45	42	45	49	49	48	50	51	54	34	39	50	54	39	32	33	34	37	46	39	38	42	36	35	43	32	15	25	26	28	33	39.5
	Minimum	31	25	38	43	47	37	36	34	23	21	30	39	28	19	29	29	25	22	29	34	35	23	24	25	15	7	10	15	6	18	26.5	
Claysville.....	Maximum	46	48	48	58	55	40	40	47	42	33	53	50	50	34	32	33	29	31	45	47	46	46	24	34	36	22	12	11	20	24	29	37.6
	Minimum	35	30	38	42	32	31	30	33	30	12	15	34	27	25	20	27	22	25	22	28	37	23	18	19	21	8	-2	1	5	-6	7	22.2
Clearfield.....	Maximum	45	43	45	49	50	45	44	43	48	34	44	40	45	32	34	31	34	24	35	36	40	44	29	31	34	30	11	8	11	23	28	35.2
	Minimum	30	32	34	36	30	4	22	14	14	22	4	24	25	16	23	16	12	20	23	23	28	11	16	21	11	0	5	5	-6	8	17.9	
Coatesville.....	Maximum	45	44	45	51	55	55	49	49	48	33	37	46	45	38	33	37	34	34	46	40	40	44	34	36	40	33	19	27	27	25	31	39.4
	Minimum	30	37	38	45	45	27	25	22	32	20	18	27	24	20	17	26	28	20	20	28	37	32	21	23	21	12	7	8	13	10	9	23.9
Corry.....	Maximum	36	48	51	52	46	36	32	38	37	22	45	44	39	29	28	28	27	22	40	40	39	36	24	26	28	19	9	15	15	18	25	32.1
	Minimum	30	31	33	33	32	28	27	25	19	17	18	30	21	22	22	22	19	16	16	26	35	22	16	17	17	7	-1	5	-1	2	7	19.6
Emporium.....	Maximum	42	46	45	52	52	40	39	42	38	26	34	44	41	33	32	32	30	25	39	41	46	44	26	32	33	22	11	18	20	18	26	34.5
	Minimum	29	30	38	40	39	35	33	24	22	20	13	31	25	24	16	16	21	17	14	23	36	26	22	22	22	7	-1	8	1	-5	-1	20.9
Erie.....	Maximum	40	43	44	56	57	38	35	41	35	29	49	42	35	32	30	30	28	27	41	43	40	30	26	31	31	18	18	23	18	22	28	34.2
	Minimum	33	36	36	41	37	30	29	30	23	21	25	34	24	27	26	27	25	24	26	35	30	22	20	20	18	8	5	10	12	13	22	24.8
Franklin's.....	Maximum	43	52	53	58	53	41	41	42	35	31	48	44	34	36	32	33	32	27	42	43	44	31	30	35	35	15	11	16	19	22	31	35.7
	Minimum	18	30	32	37	40	37	31	25	28	19	14	15	22	23	24	24	20	15	21	26	17	18	18	27	8	1	2	5	-9	2	19.7	
Gettysburg.....	Maximum	47	43	45	49	50	56	53	54	52	40	41	53	52	41	36	37	37	41	49	43	40	43	38	37	42	38	18	29	30	30	38	42.0
	Minimum	31	36	37	44	45	32	30	34	39	23	21	33	39	30	18	28	30	24	25	31	35	35	23	23	27	18	8	10	15	7	15	27.3
Greensburg.....	Maximum	41	54	47	61	54	40	43	47	46	28	50	49	49	33	33	33	28	29	45	42	50	42	30	30	35	26	11	10	16	22	27	37.1
	Minimum	32	28	37	40	34	34	31	33	28	15	17	35	28	30	19	28	23	18	23	32	36	25	18	19	21	10	0	4	8	0	16	23.3
Grove City.....	Maximum	35	43	48	55	54	35	38	40	40	26	48	59	55	30	30	30	29	21	40	41	46	52	30	30	28	18	9	13	16	27	35.0	
	Minimum	30	30	37	41	33	30	31	30	24	17	22	33	24	25	21	28	20	17	18	25	36	24	17	19	18	5	0	3	3	-11	9	21.3
Hamburg.....	Maximum	40	49	47	49	49	46	47	44	46	32	39	51	39	36	37	36	37	32	33	38	44	40	35	35	35	30	20	26	27	26	31	37.9
	Minimum	30	36	38	37	37	30	23	31	23	19	27	28	23	24	23	23	26	32	34	21	23	28	10	8	10	17	13	16	24	16	24.9	
Harrisburg.....	Maximum	42	42	46	50	54	48	50	50	45	31	40	50	52	38	34	38	34	34	41	42	42	42	31	37	37	25	16	26	24	24	32	38.8
	Minimum	32	38	39	43	44	37	35	34	30	26	24	34	36	29	26	29	26	25	27	33	35	31	26	26	25	16	10	12	18	15	18	28.4
Hawley.....	Maximum	34	38	41	47	47	47	44	40	42	29	42	39	45	30	27	31	29	30	41	39	46	44	30	29	33	32	14	26	27	27	27	35.4
	Minimum	27	32	34	40	40	31	29	32	23	18	20	31	26	24	20	18	24	20	19	21	32	30	17	20	18	11	-2	-1	17	10	15	22.5
Huntingdon.....	Maximum	46	44	45	46	51	47	47	51	52	30	40	48	52	36	35	32	32	29	51	44	43	42	35	34	37	32	17	19	21	23	30	38.4
	Minimum	31	27	39	40	41	34	25	30	29	22	16	29	32	29	16	22	22	23	25	27	33	34	22	23	21	14	6	11	15	1	16	24.4
Indiana.....	Maximum	45	48	49	59	53	40	44	45	37	32	35	32	38	35	40	35	32	25	42	51	47	35	25	34	33	18	12	10	16	18	27	35.0
	Minimum	30	28	37	38	34	37	32	30	25	17	19	21	19	18	15	12	18	15	27	20	20	17	18	18	9	-1	3	7	-5	5	19.5	
Johnstown.....	Maximum	47	51	43	51	50	40	46	49	39	26	46	49	48	44	35	32	29	27	45	41	50	45	34	32	35	19	10	12	16	24	26	36.8
	Minimum	34	31	39	41	40	33	31	25	18	19	36	30	28	20	28	23	21	24	32	38	25	19	21	19	10	3	5	10	3	18	24.6	
Lancaster.....	Maximum	43	44	45	52	53	53	52	50	51	43	39	48	48	40	40	38	36	37	48	45	40	45	37	37	39	37	34	28	29	27	34	41.7
	Minimum	31	36	39	43	43	30	24	22	34	22	18	28	35	23	19	28	30															

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

211

MAIL

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXX.

ANNUAL SUMMARY, 1925.

No. 13.

GENERAL SUMMARY.

The year as a whole accumulated a slight excess in temperature, while the precipitation averaged approximately 4.00 inches below the normal. It was a year of greater extremes than usual and records were broken in several instances.

January was a severe winter month with a mean temperature deficiency of nearly three degrees, and with heavy snows in nearly all parts of the State. In the southeastern counties, snow, sleet, and rain froze into an icy sheet of from 4 to 6 inches in thickness, and it remained on the ground to the end of the month. A sharp reaction to warmer began at the close of the month, and was followed by the warmest February on record. The ice and snow disappeared by the middle of the month, and by the 20th the frost was all out of the ground. March was unseasonably warm, although not a record breaker, and vegetation started to grow much earlier than usual. Mild temperatures continued during the fore part of April, and peach orchards came into full bloom about the middle of the month, only to be caught by a severe freeze during the third week that killed the greater portion of the crop. Gardens and field crops were not seriously damaged, and at the end of the month they were reported as being advanced beyond the usual season. However a cold May checked the growth of all vegetation, and resulted in a loss of all the early gains. It was the coldest May during the last 38 years, and heavy snow fell in most of the northern counties on the 24th and 25th, breaking all previous records for so late a season. A sharp reaction to the other temperature extremes occurred in June, which broke all previous records for intense heat. The June rainfall was deficient over the greater portion of the State, and in the southeastern counties assumed the character of a moderate drought with more or less harmful effects. However the drought was broken in July with a rainfall about 40 per cent above the normal. Crops and pastures were revived, and in some places overcame all of the harmful effects of the June drought. August temperatures were mostly seasonable, but the rainfall was only about one-half of the normal and drought conditions developed again in many places. September was unseasonably warm and dry, and the drought conditions were intensified and became more general. Pastures, meadows, and late potatoes suffered considerably. An excellent corn crop was matured, and cutting was in full swing during the latter part of the month. Heavy, general rains in October revived the pastures and late feed to some extent, but the month was unseasonably cold and disagreeable, being the coldest October in the history of the State Weather Service. Snow covered the entire State at the end of the month with an average depth of 3.8 inches. At Philadelphia a snowfall of nearly two inches was the first measurable amount to be recorded in October. November and December were generally seasonable except the December snowfall which was much less than the normal in the eastern half of the State. There were no more than the usual number of severe local storms during the year. In May there was considerable damage by hail in some of the northwestern counties, the greatest damage being to greenhouses. In July there was considerable damage by torrential rains in Lebanon County, and at the same time lightning did considerable damage to the military encampment at Mt. Gretna.

COMPARATIVE ANNUAL DATA FOR THE STATE

Year	Temperature		Precipitation		Year	Temperature		Precipitation	
	Highest	Lowest	Greatest total	Least total		Highest	Lowest	Greatest total	Least total
1888.....	100	-31	.....	.....	1907.....	98	-23	64.05	31.79
1889.....	96	-27	.....	.....	1908.....	104	-29	50.26	26.72
1890.....	101	-18	.....	.....	1909.....	100	-19	48.79	27.91
1891.....	100	-14	64.00	32.21	1910.....	99	-22	51.45	31.08
1892.....	103	-28	54.63	32.07	1911.....	105	-18	67.61	29.25
1893.....	102	-25	58.56	30.62	1912.....	100	-35	60.95	32.08
1894.....	103	-28	57.43	28.17	1913.....	102	-9	56.06	32.48
1895.....	104	-26	40.80	21.17	1914.....	101	-28	54.33	28.83
1896.....	101	-21	53.52	32.29	1915.....	99	-26	61.96	33.40
1897.....	103	-25	55.16	19.83	1916.....	103	-31	58.50	31.05
1898.....	107	-16	56.95	34.07	1917.....	105	-29	62.68	23.56
1899.....	101	-39	51.13	28.36	1918.....	108	-34	60.60	29.97
1900.....	104	-23	55.68	25.73	1919.....	104	-23	58.30	31.55
1901.....	107	-22	56.83	29.81	1920.....	99	-21	58.70	26.27
1902.....	100	-24	65.05	29.79	1921.....	104	-15	62.91	30.08
1903.....	99	-17	57.16	35.90	1922.....	100	-19	50.96	26.27
1904.....	99	-42	56.72	31.05	1923.....	103	-20	52.84	23.75
1905.....	99	-25	59.38	33.53	1924.....	102	-25	55.80	30.21
1906.....	99	-21	61.56	32.55	1925.....	104	-29	55.47	25.95

MONTHLY STATE DATA FOR 1925

Month	Temperature				Precipitation					
	Mean	Departure from normal	Highest	Lowest	Average	Departure from normal	Greatest	Least	Snow	Departure from normal
January.....	25.2	-2.7	55	-29	3.53	+0.39	6.68	1.07	29.4	+18.4
February.....	35.6	+8.1	71	-11	2.16	-0.71	4.61	0.55	2.1	-8.3
March.....	40.9	+3.5	79	-15	2.56	-0.85	4.13	1.47	2.2	-4.8
April.....	51.3	+2.5	96	2	2.32	-1.02	4.89	0.33	0.5	-2.3
May.....	55.2	-4.9	98	22	3.49	-0.30	7.98	1.02	0.2	+0.2
June.....	71.9	+4.1	104	29	3.04	+1.19	7.02	0.62	0.0	0.0
July.....	70.5	-1.8	101	32	5.57	+1.55	14.95	1.54	0.0	0.0
August.....	69.7	-0.7	97	26	2.28	-2.24	5.14	0.65	0.0	0.0
September.....	67.5	+3.9	99	24	2.80	-0.59	7.63	0.86	0.0	0.0
October.....	46.1	-6.5	83	9	4.83	+1.59	8.90	2.02	3.8	+3.8
November.....	39.5	-1.5	71	4	3.56	+0.89	6.07	1.50	2.2	-0.4
December.....	30.7	-0.2	62	-16	1.72	-1.46	3.93	0.69	3.8	-5.4
Year.....	50.5	+0.3	104	-29	37.72	-0.33	14.95	0.55	44.2	+0.2

KILLING FROSTS OR FREEZING TEMPERATURE

Stations	Last in spring	First in autumn	Stations	Last in spring	First in autumn
Allentown.....	May 2	Oct. 28	Lawrenceville.....	May 27	Sept. 23
Altoona.....	do. 25	do. 8	Lebanon.....	Apr. 22	do. 26
Beaver Dam.....	do. 25	do. 10	Lewisburg.....	May 3	do. 10
Biglerville.....	do. 8	do. 8	Lycippus.....	do. 25	do. 10
Bradford.....	do. 27	Sept. 23	Lykens.....	do. 27	Sept. 23
Bradys Bend.....	June 11	do. 22	Mauch Chunk.....	do. 9	do. 23
Brookville.....	May 27	do. 22	Mifflintown.....	do. 8	Oct. 8
Bustleton.....	Apr. 22	Oct. 11	Montrose.....	do. 27	Sept. 23
Carlisle.....	May 8	Sept. 26	Mount Pocono.....	do. 26	do. 23
Catawissa.....	do. 9	do. 26	Muncy Valley.....	do. 27	do. 23
Center Hall.....	do. 25	.....	Narberth.....	Apr. 21	Oct. 11
Chambersburg.....	do. 8	Oct. 10	Neshaminy Falls.....	May 9	do. 8
Claysville.....	do. 27	do. 8	New Castle.....	do. 27	do. 8
Clearfield.....	do. 27	do. 8	Newell.....	Apr. 16	do. 10
Coatesville.....	do. 9	Sept. 26	Palmerton.....	May 9	Sept. 26
Colebrook.....	do. 8	Oct. 10	Philadelphia (a).....	Mar. 16	Oct. 11
Corry.....	do. 27	Sept. 23	Phoenixville.....	May 8	do. 11
Derry.....	do. 19	Oct. 8	Pittsburgh.....	do. 25	do. 10
Ebensburg.....	do. 27	do. 8	Quakertown.....	do. 9	Sept. 26
Emporium.....	do. 27	Sept. 23	Reading.....	Apr. 21	Oct. 10
Ephrata.....	Apr. 22	Oct. 11	Ridgway.....	May 27	Sept. 23
Erie.....	May 18	do. 20	Saegertown.....	do. 27	Oct. 8
Franklin.....	do. 25	do. 10	Scranton.....	Apr. 21	do. 10
Freeland.....	do. 25	Sept. 23	Selinsgrove.....	May 8	do. 10
George School.....	do. 9	Oct. 11	Sharon.....	Apr. 11	do. 18
Gettysburg.....	do. 6	do. 11	Shawmont.....	do. 21	do. 24
Gordon.....	do. 27	Sept. 23	Somerset.....	May 26	.....
Greensburg.....	do. 25	Oct. 10	State College.....	Apr. 29	Sept. 26
Greenville.....	do. 27	do. 8	Towanda.....	May 8	do. 23
Grove City.....	do. 29	do. 10	Uniontown.....	Apr. 16	Oct. 10
Hamburg.....	do. 8	do. 8	Unity Reservoir.....	May 25	do. 10
Hanover.....	Apr. 21	do. 8	Vandergrift.....	do. 19	do. 10
Harrisburg.....	do. 22	do. 28	Warren.....	do. 27	do. 10
Hawley.....	May 27	Sept. 23	Washington.....	do. 27	do. 8
Holtwood.....	Apr. 21	Oct. 10	Wellsboro.....	do. 27	Sept. 15
Huntingdon.....	May 9	Sept. 26	West Bingham.....	July 1	Aug. 22
Indiana.....	do. 27	Oct. 8	West Chester.....	Apr. 21	Oct. 10
Johnstown.....	do. 27	do. 10	Williamsport.....	May 8	do. 10
Lancaster.....	do. 6	do. 8	York.....	do. 26	do. 8

Climatological Data for the Year 1925

STATION	Counties	Elevation, feet	Temperature (degrees Fahrenheit)						Precipitation (inches)						Number days with .01 or more	Sky			Prevailing direction of wind	
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total for the year	Greatest monthly	Month	Least monthly	Month		Total snowfall (unmelted)	Number clear days	Number partly cloudy days		Number cloudy days
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	13	51.0	100	June 6	-6	Jan. 28	14	44.08	5.98	July	1.62	Apr.	.....	121	158	170	37	nw
Altoona.....	Blair.....	1,615	29	49.1	94	do. 5†	-9	do. 28	38	34.27	5.49	do.	0.92	Aug.	70.0	136	181	98	86	w.
Bethlehem.....	Northampton.....	295	22	53.0	98	do. 4†	-8	do. 28	39	45.59	7.80	do.	2.32	June	.....	92	.....	.....	.....	sw.
Biglerville.....	Adams.....	652	3	52.1	100	do. 5	-5	do. 28	3	37.75	7.24	do.	1.68	Feb.	31.4	84	170	73	122	.....
Carlisle.....	Cumberland.....	467	59	53.0	102	do. 5	-5	do. 28	37	36.11	5.89	Oct.	0.89	Sept.	47.5	95	218	50	97	ne.
Catawissa.....	Columbia.....	520	29	50.6	102	do. 5	-20	do. 28	29	35.32	5.82	July	1.71	Feb.	42.1	120	222	57	86	.....
Chambersburg.....	Franklin.....	580	26	52.1	99	do. 4†	-13	do. 28	25	37.96	7.86	Oct.	1.83	do.	36.2	110	144	106	115	sw.
Coatesville.....	Chester.....	380	38	51.3	97	do. 5†	-13	do. 28	38	37.97	5.57	do.	1.22	Dec.	31.6	112	127	148	90	w.
Colebrook.....	Lebanon.....	560	10	50.4	97	do. 6	-10	do. 28	16	55.47	14.95	July	1.81	do.	42.7	138	187	45	133	w.
Emporium.....	Cameron.....	1,050	38	47.3	95	do. 5	-21	do. 28	38	40.15	5.55	do.	1.24	Aug.	51.5	127	138	113	114	w.
Freeland.....	Luzerne.....	1,970	6	44.4	96	do. 5	-20	do. 28	10	51.43	7.67	do.	1.51	Apr.	96.2	153	110	113	142	nw.
George School.....	Bucks.....	190	19	52.5	100	do. 5†	-8	do. 28	19	39.06	6.53	do.	0.97	June	28.1	115	211	73	81	w.
Gettysburg.....	Adams.....	600	50	53.5	102	June 5†	-5	Jan. 28	52	32.49	6.19	Oct.	1.47	Dec.	35.7	112	123	146	96	sw.
Gordon.....	Schuylkill.....	840	22	48.5	95	do. 5	-19	do. 28	22	44.83	6.27	July	2.06	Apr.	.....	114	163	78	119	w.
Gouldsboro.....	Wayne.....	1,875	2	44.6	89	July 16	-18	do. 28	11	40.34	5.47	do.	1.69	Dec.	61.8	132	166	78	121	w.
Hamburg.....	Berks.....	535	32	49.2	98	June 7	-8	do. 28	33	46.27	8.04	do.	1.82	do.	.....	96	184	105	76	w.
Hanover.....	York.....	600	22	53.8	100	do. 4†	-5	do. 28	22	33.57	5.53	Oct.	1.46	do.	.....	120	212	72	81	s.
Harrisburg.....	Dauphin.....	361	38	52.8	99	do. 6	-1	do. 28	56	42.37	7.26	July	1.60	Feb.	30.6	120	86	128	151	nw.
Hawley.....	Wayne.....	900	7	47.7	96	do. 5†	-19	do. 28	7	35.33	4.45	do.	1.45	do.	.....	117	.....	.....	.....	w.
Holtwood.....	Lancaster.....	200	6	52.9	97	do. 3†	-5	do. 28	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Huntingdon.....	Huntingdon.....	650	38	50.8	99	do. 6†	-19	do. 28	38	31.38	5.62	July	0.86	Sept.	40.6	130	164	84	117	w.
Lancaster.....	Lancaster.....	255	23	52.7	102	do. 5	-20	do. 28	38	35.46	6.17	do.	1.46	Dec.	.....	86	231	76	58	n.
Lawrenceville.....	Tioga.....	1,000	28	48.2	99	do. 5	-21	do. 28	28	.....	.....	.....	.....	.....	58.5	150	85	130	.....	.....
Lebanon.....	Lebanon.....	469	37	51.4	101	do. 6	-2	do. 28	85	44.76	10.71	July	1.78	Aug.	42.5	116	188	89	88	w.
Lewisburg.....	Union.....	450	50	51.1	101	June 6	-16	Jan. 28	51	37.08	6.71	July	1.46	Aug.	47.1	125	145	100	120	w.
Lykens.....	Dauphin.....	680	11	50.4	100	do. 5†	-17	do. 28	11	41.23	8.65	do.	1.54	do.	35.5	115	184	96	85	nw.
Mauch Chunk.....	Carbon.....	600	36	49.7	99	do. 5	-9	do. 28	36	48.16	8.38	do.	1.89	do.	53.7	118	175	74	116	w.
Mifflintown.....	Juniata.....	445	22	51.7	100	do. 6	-14	do. 28	22	33.38	7.82	do.	1.47	Dec.	37.4	119	157	74	134	w.
Montrose.....	Susquehanna.....	1,658	23	45.1	93	do. 5	-25	do. 28	22	38.32	5.77	do.	1.92	Feb.	57.0	99	157	82	126	w.
Muncy Valley.....	Sullivan.....	1,045	14	47.5	96	do. 5	-14	do. 28	14	47.08	7.95	do.	2.21	Apr.	.....	113	154	127	84	w.
Narberth.....	Montgomery.....	300	6	53.0	99	do. 6	-4	do. 28	7	42.08	6.19	do.	1.18	June	20.4	121	146	90	129	sw.
Neshaminy Falls.....	Bucks.....	60	11	51.2	100	do. 5†	-10	do. 29	11	34.61	5.82	do.	0.90	do.	14.2	102	206	67	92	w.
Palmerton.....	Carbon.....	398	7	49.4	102	do. 5	-19	do. 28	9	.....	8.36	do.	0.95	Aug.	45.0	136	136	93	ne.	.....
Philadelphia (a).....	Philadelphia.....	114	54	55.9	100	do. 5	3	do. 28	54	32.40	4.99	do.	0.96	Dec.	13.3	108	118	127	120	nw.
Phila. Navy Yard.....	Philadelphia.....	12	10	55.0	100	do. 5	3	do. 28	10	36.76	5.43	do.	0.99	do.	14.9	95	.....	.....	.....	.....
Phila. Pt. Breeze.....	Philadelphia.....	117	1	55.6	100	do. 5†	1	do. 28	1	33.90	5.47	do.	0.85	June	.....	106	129	102	134	sw.
Phoenixville.....	Chester.....	100	15	52.1	104	June 7†	-5	Jan. 28	15	36.91	6.18	July	0.94	June	.....	96	238	99	28	w.
Quakertown.....	Bucks.....	496	39	50.2	99	do. 6	-9	do. 28	41	44.66	8.27	do.	2.03	Aug.	.....	118	159	112	94	nw.
Reading.....	Berks.....	325	48	53.0	101	do. 6	-4	do. 28	56	42.84	11.66	do.	1.54	Dec.	38.7	122	132	118	115	nw.
Scranton.....	Lackawanna.....	805	30	49.6	97	do. 5	-11	do. 28	31	32.86	6.80	do.	1.35	Aug.	38.8	142	86	114	165	sw.
Selinsgrove.....	Snyder.....	455	36	50.5	99	do. 6	-12	do. 24	37	38.83	5.57	do.	1.91	Apr.	.....	109	.....	.....	.....	sw.
Shawmont.....	Philadelphia.....	51	9	54.0	98	do. 5†	-1	do. 28	30	33.73	5.09	Oct.	0.62	June	.....	106	146	99	120	nw.
State College.....	Center.....	1,217	38	48.9	95	do. 5	-14	do. 28	41	33.68	5.88	July	1.13	Aug.	44.4	127	127	147	91	w.
Towanda.....	Bradford.....	754	31	47.7	95	do. 5	-24	do. 28	31	34.16	5.29	do.	1.34	Feb.	45.1	137	125	76	164	e.
Wellsboro.....	Tioga.....	1,419	46	.....	95	do. 5	-25	do. 28	61	28.34	3.11	Jan.	1.32	Feb.	70.7	100	179	71	115	w.
West Chester.....	Chester.....	455	71	.....	96	do. 6	-5	do. 28	93	.....	.....	.....	.....	.....	20.1	.....	.....	.....	.....	nw.
Williamsport.....	Lycoming.....	521	36	51.1	104	do. 5	-16	do. 28	39	34.25	4.75	Sept.	1.36	Apr.	37.5	115	184	63	118	nw.
York.....	York.....	400	26	52.2	99	do. 5	-21	do. 28	38	32.54	5.45	July	1.08	Dec.	37.0	112	177	102	86	n.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	12	52.0	98	June 5	-9	Jan. 28	33	33.67	5.14	Sept.	0.69	Dec.	.....	140	.....	.....	.....	sw
Bradford.....	McKean.....	1,427	9	.....	96	do. 5	-24	do. 28	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brady's Bend.....	Armstrong.....	930	8	.....	95	do. 5	-28	do. 28	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brookville.....	Jefferson.....	1,173	15	.....	97	Aug. 31	-27	do. 28	35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Claysville.....	Washington.....	1,150	22	52.0	100	June 4	-18	do. 28	22	38.31	7.04	Oct.	1.10	Sept.	27.7	137	174	57	134	n.
Corry.....	Erie.....	1,430	14	46.1	93	do. 6	-18	do. 28	14	44.25	5.64	Sept.	2.57	Dec.	105.3	185	132	103	130	.....
Derry.....	Westmoreland.....	1,172	29	51.6	94	do. 4	-15	do. 28	29	42.32	6.43	July	1.74	do.	.....	147	114	157	94	w.
Ebensburg.....	Cambria.....	2,000	8	47.9	93	do. 6	-12	do. 28	8	.....	.....	.....	.....	.....	.....	164	99	102	.....	w.
Elk Lick.....	Somerset.....	2,680	8	.....	91	Sept. 12	-16	do. 28	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Franklin.....	Venango.....	957	32	47.8	98	June 6	-18	Jan. 28	53	40.25	4.61	Oct.	1.78	Dec.	45.0	145	141	72	152	w.
Greensburg.....	Westmoreland.....	1,150	18	51.8	95	do. 5	-12	do. 28	18	37.55	5.62	do.	1.20	do.	43.0	156	112	124	129	w.
Greenville.....	Mercer.....	950	30	48.4	99	do. 7	-12	do. 28	30	.....	.....	.....	.....	.....	.....	75	144	146	.....	.....
Grove City.....	Mercer.....	1,256	19	49.1	96	do. 6</														

Monthly and Annual Precipitation for the Year 1925, with Departures from the Normal

		January		February		March		April		May		June		July		August		September		October		November		December		Annual	
STATIONS		Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
DELAWARE BASIN.	Allentown	5.80	+2.15	2.08	-0.93	2.75	-1.23	1.62	-2.22	3.56	-0.06	2.50	-0.94	5.98	+0.93	4.54	+0.19	4.12	+0.77	5.64	+2.23	3.17	+0.77	2.32	-1.53	44.08	+0.13
	Bethlehem	6.12	+2.54	2.36	-1.13	2.88	-0.76	2.58	-0.57	3.42	-0.30	2.32	-1.85	7.80	+3.24	4.12	-0.20	3.26	-0.13	5.58	+2.30	2.86	-0.25	2.34	-1.16	45.59	+1.73
	Bustleton	5.30	+1.33	1.65	-2.45	2.98	-1.38	4.87	+1.24	2.42	-1.61	1.78	-2.26	5.35	+0.33	2.04	-2.39	1.92	-1.98	5.57	+2.05	2.87	-0.32	1.22	-3.00	37.97	-10.44
	Coatesville	5.03	.....	2.50	.....	2.69	.....	3.38	.....	2.00	.....	0.94	.....	5.84	.....	2.42	.....	3.22	.....	7.14	.....	3.57	.....	1.11	.....	39.84	.....
	Conshohocken	4.55	+0.89	2.09	-1.77	3.43	-0.64	.....	.....	2.11	-1.90	2.58	-1.42	8.09	+3.23	1.50	-4.03	3.97	+0.02	5.32	+1.34	2.69	-0.61	1.13	-2.89	.....	.....
	Doylestown	5.56	.....	3.04	.....	3.42	.....	1.51	.....	5.63	.....	2.97	.....	7.67	.....	2.86	.....	4.29	.....	4.96	.....	5.73	.....	3.79	.....	51.43	.....
	Freeland	6.01	+2.94	2.05	-1.05	3.80	+0.34	2.47	-1.13	2.77	-0.84	0.97	-2.26	6.53	+2.15	1.20	-3.40	3.56	+0.54	4.73	+1.48	3.52	+0.81	1.45	-2.36	39.06	-2.78
	Gouldsboro	3.27	+0.03	2.60	-1.13	3.02	-0.24	1.79	-2.91	4.92	+0.87	3.94	-0.97	5.47	-0.20	3.08	-2.10	2.48	-0.84	3.33	-0.12	4.75	+1.92	1.69	-1.42	40.34	-6.93
	Graterford	4.51	.....	1.44	.....	2.64	.....	2.27	.....	2.43	.....	1.43	.....	5.89	.....	2.00	.....	1.30	.....	4.71	.....	2.78	.....	1.11	.....	32.51	.....
	Hamburg	3.51	-0.25	4.61	+1.22	2.85	-1.29	1.86	-2.39	3.68	-0.82	4.38	+0.16	8.04	+3.33	3.39	-1.97	2.89	-1.31	5.76	+1.70	3.48	+0.62	1.82	-2.03	46.27	-3.03
Hawley	3.41	.....	1.45	.....	2.34	.....	1.87	.....	3.67	.....	3.30	.....	4.45	.....	2.79	.....	3.49	.....	3.79	.....	3.20	.....	1.57	.....	35.33	.....
DELAWARE BASIN.	Kennett Square	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Lansford	3.89	+0.51	3.05	+0.14	2.81	-0.70	1.67	-2.06	.....	.....	6.38	+2.15	5.32	+0.66	3.20	-1.56	3.61	-0.21	4.32	-0.02	4.25	+1.94	2.90	-0.78	.....	.....
	Mauch Chunk	4.76	+0.98	2.88	-0.99	3.41	-1.09	2.01	-1.91	3.82	-0.19	4.35	+0.05	8.38	+3.28	1.89	-3.08	3.00	-0.87	5.22	+1.46	5.08	+1.75	3.36	-0.88	48.16	-1.49
	Mount Pocono	.....	.....	.....	.....	.....	.....	.....	.....	4.80	+1.01	7.02	+2.23	6.90	+1.74	.....	.....	1.21	-3.68	.....	.....	.....	.....	.....	.....	.....	.....
	Narberth	5.30	.....	2.88	.....	3.73	.....	3.65	.....	2.64	.....	1.18	.....	6.19	.....	1.70	.....	3.07	.....	5.66	.....	4.47	.....	1.61	.....	42.08	.....
	Neshaminy Falls	5.34	.....	1.28	.....	2.39	.....	2.34	.....	1.81	.....	0.90	.....	5.82	.....	3.34	.....	3.07	.....	4.89	.....	1.50	.....	1.93	.....	34.61	.....
	Palmerton	.....	.....	.....	.....	.....	.....	.....	.....	3.47	.....	2.58	.....	8.36	.....	0.95	.....	3.56	.....	4.35	.....	3.41	.....	2.12	.....	.....	.....
	Philadelphia (a)	4.68	+1.27	1.66	-1.72	3.15	-0.30	2.43	-0.48	2.36	-0.84	1.16	-2.14	4.99	+0.66	2.01	-2.60	1.89	-1.49	4.14	+1.04	2.97	-0.09	0.96	-2.08	32.40	-8.77
	Phila. Navy Yard	3.36	.....	2.61	.....	3.34	.....	2.87	.....	2.89	.....	1.76	.....	5.43	.....	3.17	.....	2.90	.....	4.54	.....	2.91	.....	0.99	.....	36.76	.....
	Phila. Point Breeze	4.38	.....	2.34	.....	3.29	.....	2.83	.....	3.21	.....	0.85	.....	5.47	.....	1.54	.....	1.81	.....	4.01	.....	3.29	.....	0.88	.....	33.90	.....
DELAWARE BASIN.	Philadelphia-Gtn.	.....	.....	.....	.....	.....	.....	.....	.....	3.00	.....	1.74	.....	7.08	.....	2.03	.....	2.48	.....	4.97	.....	3.57	.....	1.07	.....	.....	.....
	Phoenixville	5.29	.....	2.08	.....	3.05	.....	3.25	.....	2.34	.....	0.94	.....	6.18	.....	2.64	.....	1.78	.....	4.49	.....	2.83	.....	2.04	.....	36.91	.....
	Pleasant Mount	4.82	.....	2.73	.....	3.70	.....	2.43	.....	3.51	.....	3.23	.....	10.68	.....	3.17	.....	6.49	.....	4.06	.....	5.14	.....	1.37	.....	51.33	.....
	Pottstown	4.83	+1.40	1.91	-1.62	2.67	-1.20	2.64	-0.57	2.84	-1.53	.....	.....	.....	.....	.....	.....	2.39	-0.94	5.08	+1.99	1.53	-1.69	1.82	-1.85	.....	.....
	Pottsville	5.32	+1.39	3.33	-0.22	2.33	-1.78	2.01	-1.65	4.38	+0.02	6.06	+1.78	6.60	+1.56	2.75	-2.51	3.49	-0.41	5.02	+0.99	5.55	+2.26	3.36	-0.68	50.20	+0.75
	Quakertown	6.68	+3.19	2.65	-1.11	3.27	-0.44	2.19	-1.04	2.54	-1.48	2.55	-1.11	8.27	+3.45	2.03	-2.26	3.11	-0.55	5.80	+2.43	3.05	-0.11	2.52	-1.02	44.66	-0.05
	Reading	3.83	+0.31	2.33	-1.17	2.52	-1.02	3.10	-0.12	2.99	-0.38	2.60	-1.07	11.66	+7.44	1.86	-2.62	2.53	-1.12	4.58	+1.32	3.70	+0.18	1.54	-1.78	42.84	-0.03
	Shawmont	4.14	+0.89	2.67	-0.51	2.92	-0.75	2.89	-0.28	1.69	-1.77	0.62	-2.85	4.66	+0.07	1.69	-3.44	2.65	-0.58	5.09	+1.75	3.70	+0.82	1.01	-2.88	33.73	-9.53
	Snow Hill	5.20	.....	2.99	.....	3.62	.....	2.21	.....	.....	.....	.....	.....	4.50	.....	4.50	.....	2.74	.....	4.24	.....	5.03	.....	3.93	.....	.....	.....
	West Chester	5.10	+1.26	2.28	-1.62	2.74	-1.33	4.17	+0.39	1.98	-2.47	2.39	-1.80	4.58	-0.25	.....	.....	1.53	-2.39	4.86	+1.12	2.57	-1.06	1.02	-3.07	.....	.....
DELAWARE BASIN.	Altoona	2.25	-0.25	2.78	+0.67	2.22	-0.48	2.41	-0.46	3.61	-0.41	3.28	-0.64	5.49	+2.22	0.92	-2.47	1.74	-1.04	4.61	+2.12	3.67	+1.76	1.29	-1.06	34.27	-0.04
	Ansonia	1.91	-0.50	1.74	-0.19	2.09	-0.48	2.82	-1.32	3.44	-0.44	2.92	-1.23	4.13	+0.91	1.67	-1.68	3.10	-0.11	3.08	-0.13	3.22	+1.45	1.39	-0.49	31.01	-3.91
	Baker's Summit	3.75	.....	2.43	.....	2.42	.....	2.01	.....	4.17	.....	3.69	.....	4.52	.....	1.17	.....	1.96	.....	4.74	.....	3.38	.....	1.51	.....	35.75	.....
	Bloomsburg	2.67	.....	1.65	.....	2.60	.....	2.26	.....	3.48	.....	1.82	.....	.....	.....	1.63	.....	1.33	.....	6.33	.....	3.77	.....	1.74	.....	.....	.....
	Carlisle	4.39	+1.27	1.34	-1.63	2.12	-1.42	2.29	-1.04	3.09	-0.74	3.71	-0.13	5.47	+1.61	1.33	-3.63	0.89	-2.73	5.89	+2.63	3.60	+0.41	1.99	-1.02	36.11	-6.42
	Catawissa	3.46	+0.14	1.71	-0.97	2.34	-0.71	1.74	-1.67	4.95	+1.37	1.82	-2.07	5.82	+2.05	2.18	-1.94	2.58	-0.82	3.59	+0.49	3.06	+0.35	2.07	-0.93	35.32	-4.71
	Cedar Run	2.99	.....	1.73	.....	2.15	.....	1.81	.....	4.30	.....	2.42	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Center Hall	3.22	+0.67	0.75	-1.55	2.15	-1.10	2.17	-0.97	7.98	+3.98	.....	.....	.....	.....	1.41	-2.55	.....	.....	.....	.....	4.00	+1.98	1.93	-0.82	.....	.....
	Clearfield	.....	.....	.....	.....	.....	.....	.....	.....	1.67	-1.74	4.24	-0.54	2.88	-2.18	6.13	+2.13	1.52	-3.62	2.43	-1.35	4.16	+0.84	4.36	+1.52	1.21	-1.88
	Colebrook	5.18	+1.77	3.03	+0.15	3.15	-0.65	3.25	-0.95	2.82	-0.41	3.84	-0.25	14.95	.....	3.57	-2.01	3.97	+0.55	6.42	+3.45	3.48	+0.86	1.81	-1.91	55.47	+11.51
DELAWARE BASIN.	Driftwood	.....	.....	.....	.....	.....	.....	.....	.....	1.80	.....	3.38	.....	4.00	.....	1.37	.....	2.30	.....	4.28	.....	4.35	.....	1.35	.....	.....	.....
	Emporium	3.71	+0.18	2.51	-0.36	2.93	-0.79	2.34	-0.99	4.73	+0.28	3.32	-1.21	5.55</													

Monthly and Annual Precipitation for the Year 1925, with Departures from the Normal.—Continued

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	
Cresson.....	3.74	.....	2.29	.....	2.05	.....	2.70	.....	4.48	.....	2.96	.....	5.83	.....	1.99	.....	2.14	.....	4.29	.....	4.08	.....	1.58	.....	38.13	.....
Derry.....	3.83	-0.08	3.18	+0.19	2.62	-1.44	2.95	-0.77	3.92	+0.47	3.72	-1.13	6.43	+1.60	2.54	-1.63	3.43	-0.62	4.75	+1.50	3.21	+0.64	1.74	-1.56	42.32	-1.69	
Ebensburg.....	.....	.....	1.60	.....	1.86	.....	2.33	.....	3.93	.....	3.75	.....	6.01	.....	2.25	.....	2.82	.....	4.37	.....	4.56	.....	1.44	.....	.....	.....
Elk Lick.....	3.40	.....	.....	.....	2.48	.....	2.28	.....	4.22	.....	4.17	.....	5.76	.....	1.78	.....	2.02	.....	8.90	.....	4.47	.....	2.70	.....	.....	.....
Falls Creek.....	3.23	.....	2.25	.....	2.09	.....	1.67	.....	4.54	.....	3.96	.....	3.24	.....	0.82	.....	1.99	.....	3.96	.....	4.14	.....	1.47	.....	33.36	.....
Franklin.....	2.44	-1.18	2.24	-0.65	3.31	-0.14	2.00	-1.03	4.07	+0.58	4.06	-0.71	4.03	-0.45	2.91	-0.89	4.58	+1.09	4.61	+1.50	4.22	+1.21	1.78	-1.54	40.25	-2.21	
Freeport.....	3.29	-0.66	2.27	-0.89	2.26	-1.87	2.30	-1.02	2.93	-0.95	4.58	+0.32	3.80	-0.38	2.63	-1.09	2.44	-0.43	4.48	+1.59	3.67	+0.78	1.13	-2.25	35.78	-6.25	
Greensburg.....	3.38	-0.37	2.55	-0.31	2.53	-0.27	2.08	-1.57	4.01	+0.28	2.82	-1.28	4.99	+1.20	3.23	-1.14	2.00	-1.20	5.62	+2.49	3.14	+1.18	1.20	-1.95	37.55	-2.94	
Greenville.....	1.93	+1.79	2.56	-0.03	2.78	-0.88	2.51	-0.76	2.16	-1.44	3.61	-0.60	4.24	-0.12	3.63	-0.13	5.43	+2.21	4.63	+0.98	4.23	+1.53	.....	.....	.....	.....
Grove City.....	2.45	-1.07	1.97	-0.37	2.82	-0.21	0.98	-3.05	4.33	+0.53	3.91	-0.13	3.05	-1.17	1.56	-2.11	2.74	-0.34	6.23	+2.65	4.35	+2.21	2.98	+0.13	37.37	-2.93	
Herrs Island Dam.....	2.65	-0.40	1.57	-0.81	1.47	-2.03	1.58	-1.49	3.91	+1.09	2.24	-1.94	4.13	+0.66	1.46	-1.96	1.67	-0.69	4.28	+1.57	2.96	+1.19	1.25	-1.56	29.17	-6.37	
Indiana.....	3.05	-0.88	2.09	-0.84	2.46	-1.47	2.77	-1.25	5.36	+1.09	3.27	-1.56	.....	.....	2.04	-2.47	2.96	-0.92	3.63	+0.01	4.18	+1.48	1.42	-2.07	.....	.....
Ingram.....	2.98	.....	2.02	.....	1.74	.....	1.58	.....	3.71	.....	3.04	.....	4.76	.....	1.48	.....	2.06	.....	5.03	.....	3.27	.....	1.37	.....	33.04	.....
Irwin.....	2.25	-0.79	1.58	-0.67	1.64	-1.90	1.69	-1.66	3.20	-0.04	2.20	-2.45	3.77	-0.39	1.64	-2.43	1.27	-1.50	4.67	+1.84	2.33	+0.07	1.20	-1.75	27.44	-11.67	
Johnstown.....	3.21	-1.08	2.63	-1.12	2.38	-1.66	3.08	-0.88	3.94	-0.65	3.79	-1.40	7.06	+2.66	2.27	-2.28	2.18	-1.32	5.02	+2.03	3.58	+0.66	2.26	-1.39	41.40	-6.43	
Ketner.....	2.65	.....	2.87	.....	2.64	.....	1.66	.....	3.68	.....	3.70	.....	4.10	.....	1.45	.....	2.51	.....	3.73	.....	4.11	.....	1.54	.....	34.64	.....
Linesville.....	1.89	.....	2.55	.....	3.05	.....	2.47	.....	2.64	.....	2.12	.....	2.66	.....	3.33	.....	6.28	.....	5.65	.....	3.76	.....	1.43	.....	37.83	.....
Lock No. 4.....	2.99	-0.20	2.24	-0.49	2.51	-0.79	2.15	-1.02	3.89	+0.22	2.71	-1.30	4.73	+0.38	1.66	-1.96	1.51	-1.27	6.70	+3.94	2.69	+0.29	1.58	-1.31	35.36	-3.51	
Lycippus.....	3.85	-0.22	3.20	+0.16	2.71	-1.03	3.14	-0.64	4.69	+0.73	3.24	-1.25	7.37	+2.33	3.20	-1.11	2.34	-0.69	5.36	+2.31	3.19	+0.63	1.78	-1.91	44.07	-0.69	
Martin.....	2.35	.....	1.55	.....	2.29	.....	2.07	.....	3.92	.....	2.52	.....	4.25	.....	1.92	.....	1.21	.....	7.78	.....	2.99	.....	1.35	.....	34.20	.....
New Castle.....	.....	.....	1.64	-0.77	3.09	+0.34	1.81	-1.12	2.01	-1.29	4.20	-0.24	2.57	-1.57	1.05	-2.16	2.80	-0.34	4.59	+1.85	4.16	+2.00	1.22	-1.24	.....	.....
Newell.....	3.72	.....	1.41	.....	2.39	.....	2.01	.....	3.79	.....	3.60	.....	5.64	.....	1.72	.....	1.08	.....	5.63	.....	2.12	.....	1.16	.....	34.27	.....
Parkers Landing.....	3.75	+0.34	2.42	-0.66	2.81	-0.77	2.06	-1.50	3.40	-0.42	4.61	+0.27	1.59	-2.75	3.49	-0.68	2.53	-0.77	3.48	+0.60	4.82	+1.97	1.69	-1.49	36.65	-5.86	
Pennline.....	1.37	.....	2.50	.....	2.94	.....	1.94	.....	2.57	.....	2.15	.....	2.57	.....	2.65	.....	7.63	.....	4.24	.....	3.52	.....	1.33	.....	35.41	.....
Pittsburgh.....	3.16	+0.29	1.91	-0.75	1.61	-1.40	1.44	-1.46	3.42	+0.12	2.11	-1.78	3.81	-0.61	0.96	-2.22	1.58	-0.90	4.09	+1.73	2.70	+0.15	1.40	-1.33	28.19	-8.17	
Ridgway.....	3.10	+0.33	2.61	+0.22	.....	.....	1.52	-1.34	4.23	+0.05	4.68	+0.25	6.51	+2.54	.....	.....	1.99	-0.89	3.18	-0.09	4.94	+2.30	0.95	-1.59	.....	.....
Saegertown.....	2.02	-1.35	2.26	-0.77	3.65	+0.25	2.60	-0.74	2.15	-2.30	3.64	-0.71	2.73	-1.52	2.91	-1.22	5.11	+1.56	4.65	+1.05	4.81	+1.53	1.68	-1.58	38.21	-5.80	
Saltsburg.....	3.90	+0.12	2.21	-0.78	2.56	-0.63	1.82	-1.51	4.61	+1.19	3.87	-0.15	7.15	+3.20	1.90	-2.00	2.44	-0.89	4.60	+1.43	3.48	+1.38	1.52	-1.78	40.06	-0.42	
Sharon.....	1.49	.....	1.73	.....	2.07	.....	0.94	.....	2.92	.....	3.03	.....	2.78	.....	0.65	.....	4.66	.....	2.02	.....	2.77	.....	0.89	.....	25.95	.....
Somerset.....	5.27	+0.51	4.00	+0.02	3.00	-1.34	4.89	+0.25	7.58	+2.56	4.28	-0.86	8.48	+4.04	3.97	-0.75	.....	.....	6.65	+3.53	.....	.....	.....	.....	.....	.....
Springdale.....	3.39	-0.29	2.13	-0.39	1.64	-1.77	1.92	-1.36	3.65	+0.09	3.35	-0.91	6.04	+2.25	2.38	-1.93	2.02	-1.17	4.70	+1.38	3.48	+1.45	1.62	-1.55	36.32	-4.20	
Uniontown.....	3.03	-0.82	1.73	-1.40	2.86	-1.10	2.72	-1.03	4.06	-0.01	2.25	-2.66	6.83	+1.77	1.43	-3.40	2.03	-1.15	8.25	+5.04	3.37	+0.26	1.61	-1.99	40.17	-6.49	
Unity Reservoir.....	3.67	.....	3.07	.....	2.73	.....	2.74	.....	4.52	.....	2.44	.....	6.35	.....	2.41	.....	2.67	.....	5.56	.....	3.02	.....	2.11	.....	41.29	.....
Vandergriff.....	3.06	.....	1.72	.....	1.99	.....	2.31	.....	1.03	.....	3.12	.....	4.96	.....	3.30	.....	1.39	.....	4.21	.....	4.14	.....	1.42	.....	32.65	.....
Warren.....	2.53	-0.40	2.43	-0.22	3.40	+0.27	3.15	-0.36	2.78	-1.67	3.26	-1.06	3.74	-1.09	4.20	+0.10	3.77	+0.14	5.47	+2.02	3.89	+0.56	2.54	-0.57	41.16	-2.28	
Washington.....	2.56	.....	2.15	.....	2.37	.....	2.09	.....	4.02	.....	3.73	.....	5.82	.....	1.35	.....	7.11	.....	7.21	.....	3.15	.....	1.52	.....	.....	.....
Waynesburg.....	.....	.....	1.53	.....	2.05	.....	2.80	.....	3.44	.....	2.66	.....	5.31	.....	2.26	.....	.....	.....	4.63	.....	3.79	.....	1.70	.....	33.01	.....
Westford.....	1.07	.....	1.45	.....	2.35	.....	1.19	.....	3.13	.....	3.08	.....	3.35	.....	1.63	.....	5.74	.....	4.63	.....	.....	.....	.....	.....	.....	.....
West Newton.....	2.98	-0.51	1.95	-1.11	2.50	-1.13	1.90	-1.42	4.00	+0.44	2.29	-1.86	4.90	+0.41	1.89	-2.06	2.13	-0.47	5.89	+3.20	2.78	+0.46	1.46	-1.83	34.67	-5.88	
Zelienople.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.70	.....	2.49	.....	3.07	.....	3.12	.....	3.81	.....	0.85	.....	.....	.....
POTOMAC BASIN																											
Biglerville.....	3.26	.....	1.68	.....	2.11	.....	2.34	.....	1.93	.....	2.14	.....	7.24	.....	2.20	.....	2.12	.....	7.08	.....	3.79	.....	1.86	.....	37.75	.....
Chambersburg.....	4.24	+1.65	1.83	-1.08	2.78	-0.22	2.10	-0.74	2.30	-1.35	2.04	-1.97	4.37	+1.09	2.17	-2.07	2.57	-0.17	7.86	+4.66	3.61	+0.96	2.09	-0.53	37.96	+0.23	
Hyndman.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.81	.....	3.23	.....	0.94	.....	1.12	.....	4.86	.....	3.12	.....	1.52	.....	.....	.....
LAKE BASIN																											
Erie.....	1.19	-1.84	2.20	-0.65	2.64	-0.02	2.88	+0.48	1.02	-2.41	0.99	-2.76	2.70	-0.51	2.41	-0.85	5.73	+2.24	5.40	+1.60	2.90	-0.71	1.20	-1.86	31.26	-7.29	
West Bingham.....	2.88	.....	1.73	.....	3.10	.....	2.94	.....	2.91	.....	2.63	.....	4.01	.....	1.36	.....	3.21	.....	4.20	.....	2.81	.....	1.64	.....	33.42	.....

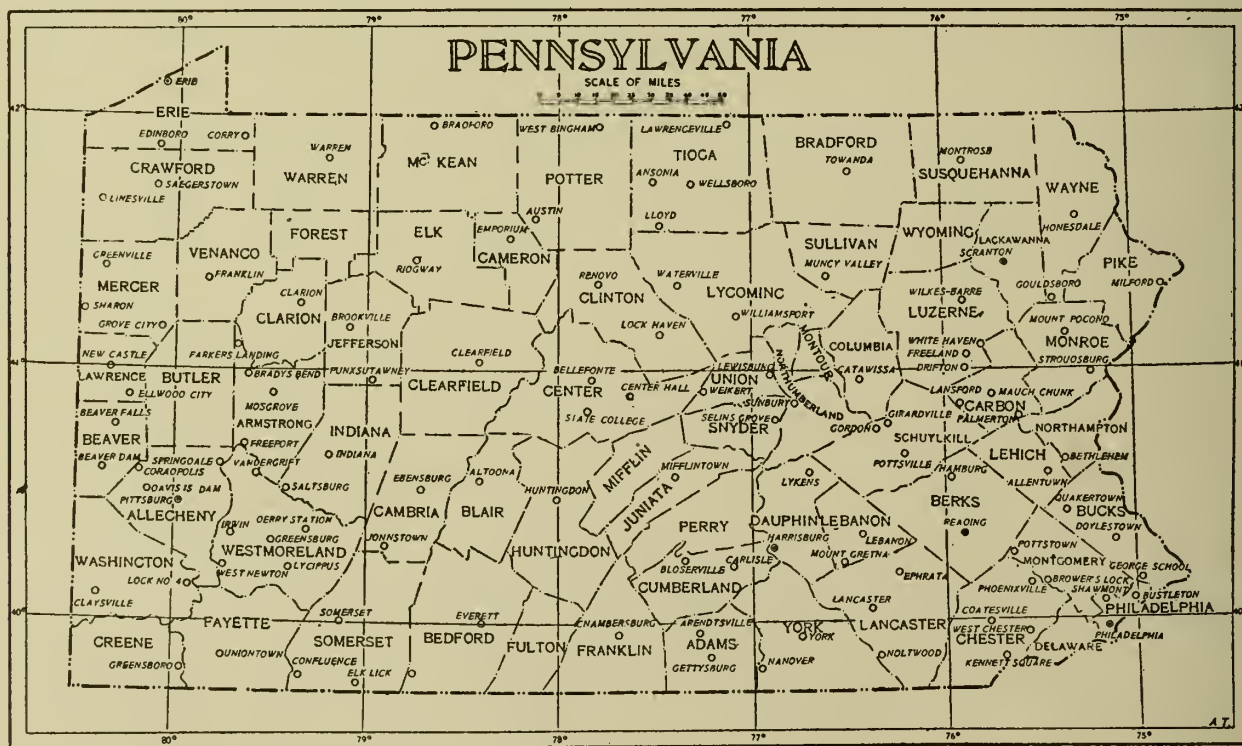
Monthly and Annual Mean Temperatures for the Year 1925, with Departures from the Normal

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Atlantic Drainage.																										
Allentown.....	23.6	.....	34.4	.....	41.0	.....	50.0	.....	57.4	.....	74.8	.....	72.1	.....	71.4	.....	67.5	.....	47.4	.....	40.5	.....	32.4	.....	51.0	.....
Altoona.....	25.0	-2.8	36.2	+10.4	39.8	+2.5	51.4	+3.2	54.4	-5.0	69.6	+3.4	68.4	-2.7	67.8	-1.8	66.7	+4.0	44.2	-7.7	37.7	-3.1	28.3	-0.7	49.1	-1.0
Bethlehem.....	26.5	-3.4	36.9	+7.1	44.7	+5.1	53.6	+1.7	58.6	-4.4	74.8	+5.0	72.6	-2.1	72.2	-1.5	69.0	+2.8	50.6	-4.9	44.0	0.0	33.0	-0.1	53.0	+0.4
Biglerville.....	27.0	.....	36.4	.....	42.4	.....	53.1	.....	56.7	.....	74.3	.....	72.8	.....	70.9	.....	69.9	.....	47.6	.....	40.6	.....	33.0	.....	52.1	.....
Bustleton.....	26.5	-1.4	35.8	+6.4	43.2	+5.7	54.0	+1.8	58.2	-3.2	76.0	+5.1	73.7	-1.1	72.6	-0.1	71.5	+6.8	48.8	-3.5	41.4	+0.7	33.8	+2.5	53.0	+1.7
Carlisle.....	22.6	-5.5	36.1	+7.0	40.8	+3.2	51.6	+0.3	56.4	-5.0	72.7	+5.0	71.0	-1.7	70.6	+0.3	67.0	+3.5	46.4	-7.2	39.6	-2.8	32.0	+0.4	50.6	-0.2
Catawissa.....	25.4	0.0	36.1	+10.2	39.4	+3.6	48.5	-0.4	53.9	-5.9	.....	.....	.....	.....	67.6	-1.6	.....	.....	.....	.....	41.0	+1.1	31.8	+2.8	.....	.....
Center Hall.....	26.3	-2.4	35.4	+4.6	42.2	+3.8	51.0	+4.2	57.1	-4.1	73.5	+4.1	72.6	-2.1	71.2	-1.0	71.2	+5.3	48.0	-4.8	40.4	-1.0	33.0	+0.1	52.1	+0.6
Chambersburg.....	26.3	-2.4	35.4	+4.6	42.2	+3.8	51.0	+4.2	57.1	-4.1	73.5	+4.1	72.6	-2.1	71.2	-1.0	71.2	+5.3	48.0	-4.8	40.4	-1.0	33.0	+0.1	52.1	+0.6
Clearfield.....	25.0	-5.4	36.0	+6.1	42.0	+2.6	51.8	+1.0	57.1	-4.6	74.2	+4.3	72.8	-1.9	70.4	+0.7	67.8	+1.7	47.2	-7.1	39.2	-3.7	31.6	-1.4	51.3	-0.6
Coatesville.....	25.2	.....	35.4	.....	40.8	.....	51.0	.....	56.0	.....	72.4	.....	69.6	.....	69.0	.....	67.4	.....	46.4	.....	39.9	.....	31.2	.....	50.4	.....
Colebrook.....	22.2	-3.6	33.8	+9.1	38.0	+3.0	49.0	+1.9	52.4	-6.3	67.6	+1.4	67.1	-3.1	66.2	-1.7	63.7	+2.3	43.0	-7.0	36.8	-2.4	27.7	-1.4	47.3	-0.6
Emporium.....	22.2	.....	35.4	+7.3	43.8	+4.8	53.1	+3.1	58.4	-2.5	.....	.....	.....	.....	70.2	-1.6	68.8	+3.3	48.3	-6.8	41.2	-1.2	33.6	+2.3	.....	.....
Ephrata.....	17.2	.....	27.4	.....	31.9	.....	41.9	.....	53.0	.....	70.0	.....	65.6	.....	66.4	.....	60.7	.....	40.4	.....	33.4	.....	24.4	.....	44.4	.....
Freeland.....	27.4	-3.4	37.6	+7.9	43.7	+4.5	51.9	+1.8	57.2	-3.8	74.3	+6.6	72.5	-1.1	71.4	0.0	69.1	+4.2	49.6	-5.3	42.4	-0.2	33.4	+1.1	52.5	+1.0
George School.....	29.4	+0.4	37.1	+6.8	43.4	+4.2	54.8	+4.4	58.5	-2.8	75.4	+5.8	74.0	0.0	72.2	+0.5	70.7	+5.7	50.2	-2.0	42.1	+0.8	34.6	+2.9	53.5	-2.2
Gettysburg.....	22.9	-3.5	34.4	+9.1	39.2	+3.3	49.5	+1.6	53.6	-4.9	69.3	+4.1	68.2	-2.0	67.0	-1.2	65.4	+3.6	44.2	-6.5	37.9	-1.1	30.2	+1.7	48.5	+0.4
Gordon.....	19.2	.....	29.4	.....	35.4	.....	45.0	.....	51.0	.....	66.4	.....	65.0	.....	63.6	.....	59.4	.....	40.3	.....	34.6	.....	26.3	.....	44.6	.....
Gouldsboro.....	23.6	-5.1	33.6	+4.8	39.4	+1.0	50.0	-0.4	54.0	-7.7	70.8	+1.3	69.4	-4.5	68.4	-3.3	65.4	-0.1	46.0	-7.9	38.8	-3.4	31.4	-0.6	49.2	-2.2
Hamburg.....	29.0	-3.9	38.4	+6.7	43.8	+2.2	54.2	+1.2	59.2	-4.7	76.0	+5.4	74.6	-0.8	72.2	-1.4	71.2	+4.0	50.0	-6.1	42.6	-1.6	34.4	+0.6	53.8	+0.1
Hanover.....	27.6	-1.4	37.0	+6.8	42.7	+3.8	53.3	+2.4	58.4	-3.4	75.2	+4.9	73.6	-1.2	72.0	-0.6	69.7	+3.9	48.3	-6.5	42.0	-0.8	33.6	+0.9	52.8	+0.9
Harrisburg.....	20.5	.....	31.7	.....	39.2	.....	48.3	.....	54.3	.....	69.4	.....	68.8	.....	68.0	.....	62.5	.....	43.6	.....	37.4	.....	29.0	.....	47.7	.....
Hawley.....	28.1	.....	38.0	.....	42.2	.....	53.6	.....	57.2	.....	75.0	.....	73.6	.....	72.0	.....	69.4	.....	49.6	.....	42.8	.....	33.6	.....	52.9	.....
Holtwood.....	25.4	-3.2	36.0	+7.6	41.2	+2.9	52.6	+3.0	55.6	-5.1	71.8	+3.6	70.8	-1.4	69.6	-1.1	69.0	+4.7	46.6	-5.9	39.7	-1.8	31.4	-0.1	50.8	-0.3
Huntingdon.....	23.1	.....	35.2	.....	41.7	.....	54.0	.....	.....	.....	.....	.....	.....	.....	69.8	.....	70.0	.....	47.5	.....	40.2	.....	32.3	.....	.....	.....
Hyndman.....	23.1	.....	35.2	.....	41.7	.....	54.0	.....	.....	.....	.....	.....	.....	.....	69.8	.....	70.0	.....	47.5	.....	40.2	.....	32.3	.....	.....	.....
Jersey Shore.....	23.1	.....	35.2	.....	41.7	.....	54.0	.....	.....	.....	.....	.....	.....	.....	69.8	.....	70.0	.....	47.5	.....	40.2	.....	32.3	.....	.....	.....
Kennett Square.....	23.1	.....	35.2	.....	41.7	.....	54.0	.....	.....	.....	.....	.....	.....	.....	69.8	.....	70.0	.....	47.5	.....	40.2	.....	32.3	.....	.....	.....
Lancaster.....	26.0	-3.6	35.4	+5.6	44.4	+6.4	53.8	+3.0	57.8	-3.2	74.7	+4.6	73.3	-0.1	72.0	-0.7	70.0	+5.5	49.6	-4.0	41.9	-1.2	33.5	+0.1	52.7	+1.1
Lawrenceville.....	22.8	-1.8	34.4	+11.4	39.2	+5.2	49.9	+4.1	52.6	-4.9	70.0	+4.8	68.4	-1.8	68.2	+0.1	64.0	+2.7	43.0	-7.5	37.2	-1.5	29.0	+1.6	48.2	+1.0
Lebanon.....	24.5	-4.5	35.6	+6.9	40.4	+1.8	51.4	+0.9	57.0	-4.0	74.3	+5.0	71.9	-1.7	71.0	-1.0	69.1	+3.9	47.6	-5.6	41.3	-0.9	32.2	+0.3	51.4	+0.1
Lewisburg.....	23.0	-2.4	33.7	+7.9	41.2	+5.9	52.6	+4.4	56.6	-1.9	73.4	+6.2	72.4	+0.9	71.2	+2.3	68.6	+6.6	47.3	-2.9	40.4	+1.3	32.8	+3.8	51.1	+2.7
Lykens.....	24.8	.....	36.6	.....	41.3	.....	51.8	.....	55.8	.....	72.5	.....	69.8	.....	68.7	.....	68.0	.....	45.4	.....	39.0	.....	30.8	.....	50.4	.....
Mauch Chunk.....	24.3	-3.1	34.6	+7.6	40.4	+3.6	49.8	+1.0	55.7	-4.4	71.8	+4.0	69.0	-3.3	66.8	-3.5	65.8	+1.8	46.4	-5.9	40.5	-0.1	31.2	+0.7	49.7	-0.1
Mifflintown.....	25.9	-1.7	36.4	+9.7	42.0	+4.0	53.4	+3.6	56.9	-3.8	73.4	+5.6	71.8	-0.9	70.1	-0.5	69.2	+5.4	47.5	-4.9	41.0	+0.4	32.7	+2.5	51.7	+1.6
Montrose.....	18.8	-3.7	29.7	+9.4	35.0	+3.9	44.6	+0.5	49.4	-5.6	68.8	+6.1	63.2	-5.0	65.4	-1.5	61.7	+1.6	42.0	-7.0	36.2	-0.7	26.6	+1.0	45.1	+0.1
Mt. Pocono.....	22.3	.....	34.2	.....	39.0	.....	49.8	.....	53.7	.....	67.5	.....	66.6	.....	66.2	.....	63.0	.....	42.7	.....	36.4	.....	28.6	.....	47.5	.....
Muncy Valley.....	22.3	.....	34.2	.....	39.0	.....	49.8	.....	53.7	.....	67.5	.....	66.6	.....	66.2	.....	63.0	.....	42.7	.....	36.4	.....	28.6	.....	47.5	.....
Narberth.....	28.4	.....	39.1	.....	44.0	.....	52.6	.....	58.0	.....	75.1	.....	73.2	.....	71.6	.....	68.9	.....	49.4	.....	42.4	.....	33.8	.....	53.0	.....
Neshaminy Falls.....	24.9	.....	35.2	.....	41.6	.....	51.0	.....	56.6	.....	74.2	.....	72.5	.....	70.4	.....	67.3	.....	48.0	.....	39.8	.....	32.5	.....	51.2	.....
Palmerston.....	22.8	.....	33.6	.....	40.2	.....	50.3	.....	56.0	.....	72.8	.....	71.0	.....	70.4	.....	64.4	.....	44.5	.....	37.7	.....	29.6	.....	49.4	.....
Philadelphia (a).....	31.8	-0.6	42.2	+8.3	46.4	+5.6	54.9	+2.8	61.6	-1.3	78.1	+6.7	76.2	0.0	74.8	0.0	71.2	+3.2	52.2	-5.6	45.4	-0.3	36.6	+0.3	55.9	+1.5
Phila. Navy Yard.....	30.4	.....	40.4	.....	45.3	.....	53.8	.....	60.8	.....	77.4	.....	75.8	.....	74.2	.....	70.9	.....	51.8	.....	43.7	.....	35.4	.....	55.0	.....
Phila-Point Breeze.....	31.2	.....	41.8	.....	46.4	.....	54.6	.....	61.6	.....	77.9	.....	76.0	.....	74.3	.....	71.2	.....	51.6	.....	44.8	.....	36.0	.....	55.6	.....
Philadelphia-Gtn.....	31.2	.....	41.8	.....	46.4	.....	54.6	.....	61.6	.....	77.9	.....	76.0													

COOPERATIVE AND RAINFALL OBSERVERS

Stations	Observers	Stations	Observers	Stations	Observers
Allentown.....	John A. Frick.	Greensburg.....	Westmoreland Water Co.	Phoenixville.....	N. Springfield Water Co.
Altoona.....	Louis E. Biller.	Greenville.....	J. R. Marks.	Pittsburgh.....	U. S. Weather Bureau.
Ansonia.....	Paul H. Mulford.	Grove City.....	Prof. H. W. Harmon.	Pottstown.....	J. Ernest Spare
Beaver Dam.....	F. H. McCullough.	Hamburg.....	State Sanatorium.	Pottsville.....	John H. Strauch.
Beaver Falls.....	W. Edward Eakin.	Hanover.....	Mrs. Mabel Wolcott.	Quakertown.....	John E. Benner.
Bethlehem.....	R. H. Brennecke, Jr.	Harrisburg.....	U. S. Weather Bureau.	Reading.....	U. S. Weather Bureau.
Biglerville.....	R. C. Walton.	Hawley.....	J. S. Pennell.	Renovo.....	J. H. Baird.
Bloersville.....	A. G. Mountz.	Herrs Island Dam.....	Victor W. Phillips.	Ridgway.....	Earl Overholser.
Bradford.....	B. A. Wise, C. E.	Holtwood.....	H. W. Lowy, C. E.	Saegertown.....	J. G. Apple.
Bradys Bend.....	E. W. Dewey.	Huntingdon.....	Prof. W. J. Swigart.	Saltsburg.....	Thomas M. Duncan.
Brookville.....	John Fawcett.	Indiana.....	Harry Herlinger.	Scranton.....	U. S. Weather Bureau.
Bustleton.....	Agr. Experiment Station.	Ingram.....	W. R. Gormly.	Selinsgrove.....	Dr. George E. Fisher.
Carlisle.....	Clarence E. Miller.	Irwin.....	W. F. Gallagher.	Sharon.....	H. H. Gerber.
Catawissa.....	H. H. Yetter.	Jersey Shore.....	C. B. McCullough.	Shawmont.....	Winfield S. Guiles.
Cedar Run.....	C. R. Nivison.	Johnstown.....	E. C. Lorentz.	Somerset.....	William M. Schrock, C. E.
Center Hall.....	S. W. Smith.	Kennett Square.....	Wm. P. Mercer.	Springdale.....	James C. Patton.
Chambersburg.....	Wm. B. Spear.	Ketner.....	J. Nelson.	State College.....	C. A. Kern.
Claysville.....	J. L. Melvin.	Lancaster.....	C. K. Willis.	Sunbury.....	Chas. E. Frymoyer.
Clearfield.....	E. W. Hess, C. E.	Lansford.....	Lehigh Coal & Nav. Co.	Towanda.....	Hiram E. Bull, C. E.
Cloe.....	Frank McElwain.	Lawrenceville.....	C. P. Darling.	Uniontown.....	Wm. W. Marsteller.
Clymer.....	Thomas Fleitz.	Lebanon.....	S. B. Benzing.	Unity Reservoir.....	Westmoreland Water Co.
Coatesville.....	Prof. W. T. Gordon.	Lewisburg.....	Prof. Wm. G. Owens.	Vandergrift.....	R. B. Saylor.
Colebrook.....	William A. Rorer.	Linesville.....	Water Supply Com.	Warren.....	Mrs. Anna Simpson
Confluence.....	Grant Pyle.	Lloyd.....	M. L. Fish.	Washington.....	G. S. Buchanan.
Conshohocken.....	Russell C. Erb.	Lock Haven.....	Chas. Dunn.	Waynesburg.....	H. T. McClelland.
Coraopolis.....	U. S. Engineer.	Lock No. 4.....	Charles R. Taylor.	Welkert.....	David Libby.
Corry.....	N. R. Dickson.	Lycippus.....	Westmoreland Water Co.	Wellsboro.....	George W. Hill.
Creeside.....	John E. Lewis.	Lykens.....	Susquehanna Coal Co.	West Bingham.....	Frank Johnson.
Cresson.....	J. C. Burrows.	Martin.....	George W. Paxton.	West Chester.....	Arthur M. Hay.
Derry.....	Wm. A. Huff, Jr.	Mauch Chunk.....	R. K. Wintermute.	Westford.....	C. C. Collins.
Doylestown.....	Geo. Hart.	Mifflintown.....	Wellington Smith.	West Newton.....	A. B. Adams.
Ebensburg.....	D. H. Jones.	Montrose.....	Silas Jagger.	Wilkes-Barre.....	Milton Wentz.
Elk Lick.....	J. S. Stevanus.	Mount Pocono.....	Cecil J. Hoskinson.	Williamsport.....	George A. Beck.
Emporium.....	T. B. Lloyd.	Mount Union.....	C. R. Gracey.	York.....	C. L. Bott.
Ephrata.....	Ira J. Keath.	Muncy Valley.....	A. H. Boatman.	York Haven.....	Water Supply Co.
Erie.....	U. S. Weather Bureau.	Narberth.....	Charles Decker.		
Falls Creek.....	J. S. Snell.	Neshaminy Falls.....	N. Springfield Water Co.		
Forest City.....	L. L. Whipple.	New Castle.....	New Castle Water Co.		
Franklin.....	R. A. Fergus.	Newell.....	General Chemical Co.		
Freeland.....	Theodore Reichmann.	Palmerton.....	Frank G. Breyer.		
Freeport.....	Mrs. Anna R. Burtner.	Parkers Landing.....	Henry Turk.		
George School.....	N. W. Swayne.	Penn Line.....	Retta Crumb.		
Gettysburg.....	Col. E. B. Cope.	Philadelphia.....	U. S. Weather Bureau.		
Girardville.....	Girard Water Co.	Philadelphia-Gtn.....	Julius Bernstein.		
Gordon.....	Capt. J. G. Johnson.	Philadelphia.....	Commandant, Navy		
Gouldsboro.....	Gustav Holtz.	Philadelpha.....	Yard.		
Graterford.....	C. K. Kulp.	Phila- Point Breeze.....	Atlantic Refining Co.		

WEATHER BUREAU AND COOPERATIVE STATIONS, 1925



KEY TO SYMBOLS.

- Meteorological Observations. (Regular Weather Bureau Stations.)
- Meteorological Observations. (Sub Stations.)

MAR 15 1926

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXI. JANUARY, 1926. No. 1

GENERAL SUMMARY.

The mean temperature for the State was exactly equal to the January normal, there being a slight deficiency in the western counties and a corresponding excess in the eastern portion of the State. There were no unusual extremes in temperature. Moderate cold waves centered about the 13th, 23d, and 29th respectively with minimum temperatures for the month recorded at a majority of stations on the 29th. Mild periods centered about the 6th and 19th with thunderstorms reported from many stations during the latter period. Warm rains supplemented the high temperatures on the 18th and 19th, melting large quantities of snow, and breaking the ice in several streams. In the upper portion of the Allegheny river there were ice jams for a distance of 65 miles or more with resulting floods that were bad in some places. When the ice jams broke the flood waters spread out before reaching the lower portion of the river and no damage resulted in the Pittsburgh district. The Schuylkill river also reached flood stages in its upper portion, but with no ice jams of consequence and with little damage reported. The heaviest snowfall for the month occurred generally on the 9th, and was sufficient to block the main State highways for two or three days, while secondary roads were blocked in some places for a week or more. The snowfall for the remainder of the month was generally light, and the average monthly total for the State was only 10.5 inches. The fields were mostly snow covered after the 9th, and conditions were much more favorable for winter wheat and rye than they were during the month of December. Most kinds of outdoor work progressed slowly during the month, and field operations on farms were practically suspended.

TEMPERATURE.

The mean temperature for the State, as deduced from the records of 83 stations was 27.8°, which is exactly normal for January in Pennsylvania. The highest mean was 34.3° at the Philadelphia Weather Bureau, and the lowest, 21.4°, at West Bingham. The highest temperature recorded during the month was 66°, at Gettysburg, on the 20th. The lowest for the month, 19° below zero, occurred at West Bingham and Brookville on the 29th. The greatest daily temperature range was 58° at Franklin on the 30th.

PRECIPITATION.

The average precipitation (rain and melted snow) for the State, as determined by the records of 126 stations, was 2.80 inches, or 0.53 inch less than the January normal, corrected to include all records to 1925. The greatest monthly total was 4.85 inches at Harrisburg, while the least for the month, 1.12 inches, was recorded at Pennline. The greatest amount recorded in any 24 consecutive hours was 1.90 inches at Hamburg, on the 18th. The snowfall averaged 10.5 inches, which is 0.5 inch less than the State normal for January. The greatest monthly snowfall reported was 28.2 inches at Corry. The greatest 24-hour snowfall occurred at Canton on the 9th, when 14.8 inches fell.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total move- ment, in miles	Velocity, in miles per hour			
				8 a m	8 pm		Average	*Highest	Direction	Date
Erie.....	61.9	295.3	21	76	75	12,994	17.5	49	s.	23
Harrisburg.....	134.3	300.9	45	73	68	5,160	6.9	35	nw.	22
Philadelphia.....	134.6	300.9	45	72	64	7,565	10.2	39	ne.	9
Pittsburgh.....	86.9	298.2	29	76	74	9,896	13.3	52	w.	28
Reading.....	112.7	300.9	37	79	76	4,958	6.7	33	nw.	28
Scranton.....	142.4	298.2	48	86	77	5,180	7.0	40	w.	28

* For any five-minute period.

COMPARATIVE DATA FOR JANUARY

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	23.2	61	-19	4.19	6.75	2.12	5	11	15
1889.....	29.4	68	-5	3.54	7.02	1.82	9	13	9
1890.....	37.5	77	-2	3.04	6.87	1.47	7	8	16
1891.....	30.5	64	-4	3.64	8.74	1.22	6	10	15
1892.....	26.2	66	-28	4.77	8.46	2.08	8	8	15
1893.....	19.0	57	-25	2.85	4.82	1.65	7	10	14
1894.....	32.8	65	-9	2.29	4.71	0.83	9	9	13
1895.....	24.2	58	-17	4.17	6.36	1.83	7	10	14
1896.....	27.6	60	-15	1.43	2.40	0.52	8	9	14
1897.....	25.6	74	-25	2.15	3.54	0.87	8	8	15
1898.....	30.7	67	-16	4.25	7.57	1.32	6	8	17
1899.....	26.6	66	-21	3.05	4.84	0.82	12	8	11
1900.....	29.8	63	-8	2.64	4.37	1.36	8	9	14
1901.....	29.1	59	-10	2.22	4.41	0.74	8	8	15
1902.....	25.6	58	-13	2.80	5.15	1.00	8	9	14
1903.....	26.9	68	-13	3.31	5.09	1.49	6	8	17
1904.....	20.0	66	-42	3.55	5.82	2.08	10	6	15
1905.....	23.8	69	-21	3.70	7.55	1.72	8	8	15
1906.....	35.0	85	-4	2.53	5.28	0.76	10	8	13
1907.....	30.0	75	-23	4.36	9.69	2.14	6	7	18
1908.....	28.4	59	-18	2.68	5.33	1.46	12	8	11
1909.....	31.2	72	-19	2.92	4.25	1.58	9	6	16
1910.....	27.2	56	-22	5.55	8.91	3.27	7	5	19
1911.....	31.6	70	-5	3.54	6.38	1.25	8	5	18
1912.....	18.6	57	-35	1.92	3.72	0.47	8	7	16
1913.....	36.5	65	3	4.95	8.90	1.51	9	6	16
1914.....	30.2	81	-27	3.37	5.77	1.40	7	7	17
1915.....	28.3	62	-26	5.56	9.69	2.43	10	6	15
1916.....	34.2	76	-12	2.42	5.33	0.20	9	8	14
1917.....	27.9	69	-18	3.60	6.69	1.06	11	8	12
1918.....	16.2	57	-29	3.51	7.28	1.20	10	8	13
1919.....	32.0	64	-15	2.53	2.10	0.34	14	8	9
1920.....	20.9	59	-23	2.47	5.35	1.00	9	8	14
1921.....	31.0	63	-13	2.58	5.23	0.89	12	7	12
1922.....	25.0	62	-19	2.26	4.46	1.15	14	7	10
1923.....	29.1	62	-17	4.26	7.74	1.91	6	6	19
1924.....	28.1	65	-13	4.34	6.29	1.70	11	8	12
1925.....	25.2	55	-29	3.49	6.68	1.07	11	7	13
1926.....	27.8	66	-19	2.80	4.85	1.12	9	9	13

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.2	6.7	20	2.4	18	18
Phillipsburg.....	Delaware.....	3.8	6.0	19	2.6	1	22
Mauch Chunk.....	Lehigh.....	.....	.....	.....	.....	.....	12
Wilkes-Barre.....	Susquehanna.....	5.8	12.3	20	3.4	13	20
Williamsport.....	Susquehanna.....	3.2	7.7	20	1.6	1	20
Harrisburg.....	Susquehanna.....	.....	9.2	21	4.5	16	17
Freeport.....	Allegheny.....	9.7	14.6	6	5.3	1	22
West Newton.....	Youghiogheny.....	3.8	8.5	19	1.3	14	20
Lock No. 4.....	Monongahela.....	16.1	27.4	23	13.2	1	31
Pittsburgh.....	Ohio.....	9.9	17.0	20	6.8	1	22
Beaver Dam.....	Ohio.....	9.4	20.8	20	4.5	1	80

Climatological Data for January, 1926

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	14	28.6	.....	57	18	2	29	39	2.29	-1.36	0.83	3.9	9	13	14	4	nw.	John A. Frick.
Altoona	Blair	1,615	39	27.0	+0.3	57	18†	-8	29	37	2.64	+0.14	0.94	19.0	11	10	11	10	w.	Lewis E. Biller.
Bethlehem	Northampton	295	42	30.8	+0.9	58	18	1	29	31	1.97	-1.61	0.61	2.4	9	10	9	12	w.	Lehigh University.
Biglerville	Adams	652	4	28.8	.....	59	20	1	29	31	2.69	.....	1.03	7.0	5	14	6	11	w.	R. C. Walton.
Bustletou	Philadelphia	125	7	31.6	.....	57	18†	4	29	29	2.90	.....	1.20	.....	7	6	7	18	w.	Experiment Station.
Canton	Bradford	1,300	.....	24.9	.....	45	18†	-6	29	29	2.81	.....	1.07	18.3	10	6	5	20	sw.	Marble Laboratory, Inc.
Carlisle	Cumberland	467	59	29.0	+1.1	60	20	-6	13†	41	3.41	+0.29	0.94	9.0	8	19	4	8	nw.	Prof. C. E. Miller.
Catawissa	Columbia	520	29	27.2	-0.9	54	19	-6	13	37	2.94	+0.38	0.74	11.5	11	12	8	11	.....	H. H. Yetter.
Center Hall	Center	1,272	30	28.1	+2.7	58	30	-6	29	42	2.91	+0.36	1.26	17.0	9	17	7	7	.....	S. W. Smith.
Chambersburg	Franklin	580	26	29.0	+0.3	56	20	-2	11	34	3.51	+0.92	0.86	7.0	11	9	12	10	w.	William B. Spear.
Clearfield	Clearfield	1,120	16	26.7	-0.2	56	5	-10	28	42	2.01	-1.83	1.08	13.0	12	9	8	14	nw.	E. W. Hess.
Coatesville	Chester	380	38	28.0	-2.4	58	20	1	29	37	3.76	-0.21	1.15	4.0	10	10	12	9	nw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	16	28.0 ^a	.....	52 ^a	20	1 ^a	13	29 ^a	4.06	.....	1.50	6.2	11	12	9	10	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	38	26.1	+0.3	58	5	-12	29	38	2.65	-0.88	0.65	14.0	11	5	10	16	w.	T. B. Lloyd.
Ephrata	Lancaster	380	25	29.5	+0.2	53	19	4	11†	33	3.69	+0.70	0.76	3.8	8	9	9	13	w.	Ira J. Keath.
Freeland	Luzerne	1,970	11	22.8	.....	47	18	-10	29	32	3.03	.....	0.84	15.6	12	6	11	14	nw.	Theo. Reichmann.
George School	Bucks	190	19	30.2	-0.6	57	18†	4	29	28	2.63	-0.44	0.88	2.8	10	9	12	10	w.	Prof. N. W. Swayne.
Gettysburg	Adams	600	52	30.6	+1.6	66	20	0	11†	39	3.19	+0.05	0.80	7.5	11	11	12	8	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	22	26.6	+0.2	52	20	-8	13	41	3.92	-0.01	1.10	12.0	9	17	6	8	w.	Capt. J. G. Johnson.
Gouldsboro	Wayne	1,875	2	23.4	.....	48	18	-10	14	34	2.45	-0.79	0.58	14.2	9	8	11	12	w.	Gustav Holtz.
Hamburg	Berks	555	33	27.4	-1.3	55	19	-1	13	30	3.43	-0.33	1.90	6.0	7	16	9	6	w.	State Sanatorium.
Hanover	York	600	22	31.0	-1.9	60	20	2	29	30	3.10	-0.22	0.65	5.5	9	16	8	7	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	56	29.6	+0.6	54	20	5	29	26	4.85	+2.03	1.34	7.3	10	4	14	13	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	7	25.2	.....	49	30	-10	14	45	1.86	.....	10.0	5	10	11	10	w.	J. S. Pennell.	
Holtwood	Lancaster	200	11	30.4	.....	61	20	4	13	31	3.87	.....	0.83	3.9	8	10	3	18	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	38	29.0	+0.4	52	20	-4	13	42	.....	.....	.....	.....	6	11	14	nw.	Prof. W. J. Swigart.	
Hyndman	Bedford	977	.....	30.4	.....	64	5†	-10	29	43	3.25	.....	0.90	6.2	11	6	9	16	.....	John S. Madore.
Lancaster	Lancaster	255	38	29.0	-0.6	56	18	-3	13	40	3.03	-0.22	1.00	4.0	6	22	4	5	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	28	25.2	+0.6	55	30	-10	13†	39	2.42	+0.38	0.70	15.0	6	9	4	18	.....	C. P. Darling.
Lebanon	Lebanon	469	85	28.2	-0.8	54	20	3	29†	43	3.63	+0.04	1.32	6.9	10	16	8	7	.....	S. B. Benzing.
Lewisburg	Union	450	51	27.0	+1.6	53	19	-11	13	39	3.03	+0.06	0.80	16.5	10	8	6	17	w.	Prof. W. G. Owens.
Lykens	Dauphin	680	11	27.4	.....	55	20	-7	13	41	3.17	.....	0.67	8.0	8	17	7	7	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	35	28.4	+1.0	52	20	0	13	38	3.43	-0.35	1.06	4.5	9	9	13	7	w.	R. K. Wintermute.
Millintown	Juniata	445	22	28.8	+1.2	54	20	0	13†	38	2.98	-0.20	0.65	9.0	9	15	2	14	nw.	Wellington Smith.
Montrose	Susquehanna	1,720	23	23.0	+0.5	47	18	-11	13	35	2.53	-0.18	0.98	16.0	6	5	21	w.	Silas Jagger.	
Mt. Pocono	Monroe	1,658	23	.....	.....	52	19	-14	29	32	2.51	-0.81	0.80	17.0	9	8	13	10	sw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	14	23.6	.....	52	19	-14	29	32	2.51	-0.81	0.80	17.0	9	8	13	10	sw.	A. H. Boatman.
Narberth	Montgomery	300	7	31.3	.....	59	20	4	29	29	3.60	.....	1.37	3.4	12	9	6	16	sw.	Charles Decker.
Neshaminy Falls††	Bucks	60	37	27.6	.....	59	18	2	29†	45	2.10	.....	1.15	0.5	7	14	8	9	w.	North Springfield Water Co.
Palmerton	Carbon	398	9	27.0	.....	52	18†	0	13†	31	2.85	-0.56	1.43	3.5	.....	9	12	10	sw.	F. G. Breyer.
Philadelphia	Philadelphia	114	56	34.3	+1.9	60	18	7	29	29	2.85	.....	1.18	0.8	9	.....	11	11	sw.	U. S. Weather Bureau.
Phila. Navy Yard	Philadelphia	12	10	31.8	.....	58	18	6	29	31	2.45	.....	0.87	.....	10	9	12	10	w.	Commandant, Navy Yard.
Phila. Point Breeze	Philadelphia	90	1	33.0	.....	59	18	7	29	28	2.80	.....	0.87	.....	10	9	12	10	w.	Atlantic Refining Co.
Philadelphia-Gtn	Philadelphia	113	1	33.8	.....	59	19	7	29	27	2.81	.....	1.26	3.4	9	10	11	10	.....	Julius Bernstein.
Phoenixville	Chester	100	15	28.9	.....	56	18†	3	29	33	3.55	.....	1.03	6.0	8	17	11	3	w.	North Springfield Water Co.
Quakertown	Bucks	496	41	28.4	+1.4	55	18	0	29	31	2.88	-0.61	0.95	3.5	9	7	17	7	nw.	John E. Benner.
Reading	Berks	325	56	31.2	+1.8	58	18	6	29	27	3.67	+0.15	1.25	5.0	10	7	11	13	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	31	27.2	+0.6	53	18	-3	29	29	2.09	-0.71	0.72	12.2	13	2	7	22	s.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	36	28.6	-0.3	48	5†	-7	13	33	2.03	-1.09	0.65	11.0	8	6	15	10	nw.	Dr. George E. Fisher.
Shawmont††	Philadelphia	51	30	31.0	.....	56	18†	6	29	26	2.63	-0.62	1.08	1.5	8	9	10	12	nw.	W. S. Guilis.
State College	Center	1,217	41	27.2	+0.9	56	5	-5	29	33	3.32	+0.34	0.90	13.4	12	4	12	15	w.	C. A. Kern.
Towanda	Bradford	754	31	25.2	0.0	49	5	-10	13	40	2.57	+0.47	1.20	15.7	11	6	10	15	e.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	60	23.2	-1.1	53	30	-12	13†	44	1.96	-0.61	0.70	18.0	9	11	6	14	w.	George W. Hill.
West Chester	Chester	455	88	30.0	-0.2	57	20	2	29	28	3.02	-0.82	1.22	2.5	10	15	10	6	sw.	Arthur M. Hay.
Williamsport	Lycoming	521	39	27.3	0.0	47	19	-3	13	29	1.71	-1.29	0.57	14.5	7	16	0	15	nw	George A. Beck.
York	York	400	38	29.2	-0.1	55	19	-5	13†	41	2.93	-0.06	0.78	7.0	8	13	12	6	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam††	Beaver	700	33	28.2	.....	55	5	-8	29	37	2.29	-0.58	0.70	13.5	12	4	6	21	sw.	U. S. Engineer.
Bradford	McKean	1,427	11	25.8†	.....	51†	5	-10†	29	40†	2.53	.....	0.55	14.4	16	4	10	17	w.	City Engineer.
Bradys Bend††	Armstrong	930	8	.....	.....	50	5	-19	29	53	1.85	-1.52	0.40	18.0	11	19	9	3	.....	Edward W. Dewey.
Brookville	Jefferson	1,173	35	22.0	-2.8	50	5	-19	29	53	1.85	-1.52	0.40	18.0	11	19	9	3	.....	John Fawcett.
Claysville	Washington	1,150	22	29.0	-1.9	57	5†	-9	29	42	2.88	-0.65	1.00	12.2	19	11	4	16	w.	J. L. Melvin.
Corry	Erie	1,430	14	23.8	.....	50	30	-9	29	41	2.63	.....	0.50	28.2	20	4	11	16	.....	Nevin R. Dickinson.
Derry	Westmoreland	1,172	29	29.0	-1.4	58	5</													

Continued on page 4

Daily Precipitation for January, 1926—Continued from page 3

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio.....				.02	.16				.52	.12					.03		*	.25	.34		.70				*	.10	.05					2.29	
Beaver Falls|||	Beaver.....				.04	.06		T.		.60	.03	T.	.02	T.	T.	T.			.27	.26		.69			T.	T.		.10	.05	T.			2.12	
Bradford.....	Allegheny.....				.02	.05	.03	.03		.25	.03		.05			.20			.55			.10	.25	.05	.10	T.	T.		.20	.20	T.		.42	2.53
Bradys Bend.....	do.....																																	
Brookville.....	do.....		.05		.20	.10	T.		.39	.05		.05	T.	T.	T.				.15		T.	.31					.05	.10					.40	1.85
Clarion.....	do.....																																	
Claysville.....	Ohio.....				.04	.19			.12	.24	.01	.01	.01	.04	.02	.02		.06	.66	.05	T.	.40	.60				.02	.08	.05				.36	2.88
Cloeff.....	Allegheny.....				.12	.15			.50	T.						T.		.06	.85			.44					.08	.04					.72	2.96
Clymer|||	Conemaugh.....				.09	.28			.35			*		*		*		.79	.36			.22	.40					.10					.32	2.91
Colegrove|||	Allegheny.....																																	
Confluence|||	Youghiogheny.....				.08	.20			.24	.03	T.	T.			.05			.18	.90		T.	1.27			T.	T.	T.		.11	.19			T.	3.25
Coraopolis|||	Ohio.....				.04	.12		T.	T.	.50	.05	T.	.03	T.	.02	T.	.02		.27	.52		T.	.63	T.	T.	T.		.10	.10	T.				2.40
Corry.....	Allegheny.....				.04	.05	.10	.03		.27	.06	.04	.13	.01	.01	.23			.50			.16	.12		.15		.09	.21	.22	.01			.20	2.63
Coudersport.....	do.....																																	
Creekside.....	Allegheny.....				.04	.25			.21	.08				.02				T.	.85			.50				T.							.65	2.60
Derry.....	Conemaugh.....				.05	.54			T.	.06				.02		.05		T.	.67	.11		.40	.53				.08	.17					.68	3.36
Ebensburg.....	Conemaugh.....																																	
Elk Lick.....	Youghiogheny.....				.20				.30	.20				.10				1.00	.16		.80	.20							.30	.50			.50	4.26
Falls Creek.....	Allegheny.....				.06	.16	T.		*	.60	.38	.04				.03			.84		*	.38				*	*	.23					.47	3.19
Franklin|||	Allegheny.....				.05	.17		T.		.54	.07		.03		.03	.07			.08	.43		.25					.26	.07					.205	
Freeport|||	Allegheny.....				.10				.30									.28	.52		.55					.05		.11	.05				.196	
Greensburg.....	Youghiogheny.....				T.	.53	T.	T.	.01	.36	.07	T.	.01	.03	.05	.07		.04	.64	.18	T.	.54	.49	T.	.03		.04	.19	.01			.34	3.63	
Greenville.....	Beaver.....																																	
Grove City.....	Beaver.....				.03		.22	.07		.31	.01	.03	.02	.01	.02	.06			.56	.02		.15	.12		T.		.07	.15	.10	.16		.31	2.42	
Herrs Isl. Dam|||	Ohio.....	T.			.04	.06		T.	T.	.43	.05	T.	.02	T.	.04	T.	T.		.19	.60		T.	.55	T.	T.	T.		.05	.10	T.			2.13	
Indiana.....	Conemaugh.....				.20	.11	T.			.25	.05		.03	T.	.03	.03		.73	.15	T.	.21	.48				T.	.14	.09				.80	3.30	
Ingram.....	Ohio.....				.07	.06	T.		.31	.24	.02	.02	T.	.03	.01	.02		.03	.69	.02	T.	.44	.32	T.	.02		.02	.07	.10			.52	3.01	
Irwin.....	Youghiogheny.....				.17	.19	T.		.06	.23	.02	T.	T.	.02	T.	.01		.06	.63	.11		.41	.15	T.	T.		.01	.02	.09			.38	2.56	
Johnstown.....	Conemaugh.....				T.	.06	.39	T.	T.	.18	.20	.04	T.	.06	T.	.05	.15		.05	.65	.29		.50	.52		.02	.05	.30	.02			.52	4.05	
Ketner|||	Allegheny.....				.03	.14	.02	.03		.36	.02	.02	.05	.04	.02	.08			.65			.03	.18		.03		.04	.11	.05			.40	2.30	
Kregar|||	Youghiogheny.....				.02	.48				.16	.08		.05		.06	.03	.02		.13	.80	T.	.80				.01		.20	.21				3.05	
Linesville|||	Beaver.....	T.			.02	.06				.17	.02		.07	T.	T.	.05		.12	.24		.05	.14					.17	T.	.06			1.01	2.18	
Lock No. 4|||	Monongahela.....				.08	.25				.28	.02	.01	.01		.03	.01	T.		.26	.48		.03	.78				.08	.05				T.	2.37	
Lycippus.....	Conemaugh.....				.03	.70			T.	.30				T.	.10	.03		.04	.70			.60	.91		T.		.21	T.				.55	4.17	
Martin.....	Monongahela.....				.07	.33				.20	.02		.02		.01		T.	.07	.41		.03	1.31				T.	.08	.13				T.	2.68	
Mount Lebanon.....	Ohio.....				.06	.11			.13	.26	T.	.02		.03		.06		.05	.53		.02	.48	.29		.01		.02	.08	.06			.41	2.62	
New Castle|||	Beaver.....				.11	.01			.32	.13		T.		.01	.01			.34	.19		.06		.24		.10		.03	.04			T.	1.12	2.71	
Newell.....	Monongahela.....				.07	.24		T.	.03	.10	T.	T.	.01	.01	T.	.02		.06	.44	.12		.33	.28		T.	.01	.03	.01			.30	2.06		
Parkers Landing|||	Allegheny.....	T.			T.	.33	T.	T.	T.	.80	.10	T.	.10	T.	T.	.10	.20		.05	.40		.03	.30		.10	T.		.30	.10	T.		.291		
Pennline|||	Beaver.....	T.					.04		.20	.05		.02	T.		.05			.10	.23		.04	.15	T.			.15	.06	.01					1.12	
Pittsburgh***	Ohio.....				.07	.03	T.	.01	.45	.10		.03	T.	.03	T.			.06	.67		T.	.60	.66	T.	.03		.08	.08	.05			.50	2.85	
Ridgway|||	Allegheny.....																																	
Saltsburg|||	Conemaugh.....					.40				.28	.08		.04		.05	.02	.01		.10	.72		.73			.04		.04	.24					2.75	
Saegertown|||	Allegheny.....				.10				.25	.35	.05					.20			.35		*	.20	.05	.05		*	.20					*	1.80	
Sharon|||	Beaver.....				.04	.12			.31				.02	T.	T.	.02			.08	.15		T.	.20	T.		.20	.06	.03	T.				1.23	
Somerset.....	Youghiogheny.....																																	
Springdale|||	Allegheny.....				.12	.14			.40	.08	T.	.09		.05		.03			.22	.62		.62			.02		.12	.11	.01				2.63	
Uniontown.....	Monongahela.....				.07	.47	T.		.12	.17	T.		T.	T.	T.		.07	.58	.05		.75	.76				.03	.09	.10			.35	3.61		
Unity Reservoir|||	Youghiogheny.....				.12	.44			.07	.30				.08	*	.11		.07	.65	.23		.50	.67				.08	.35	.20			.38	4.25	
Vandergrift.....	Conemaugh.....																																	
Warren.....	Allegheny.....				.04		.05		.44				.06			.20			.15	.23		.14	.20		.10		.07		.10			.10	1.88	
Washington.....	Ohio.....																																	
Waynesburg|||	Monongahela.....																																	
Westford|||	Beaver.....								.35						.10			T.				.05	.39		T.		.13	.15					1.17	
West Newton|||	Youghiogheny.....				.06	.35			.28	.08	.02		.03	T.	.05			.20	.50			.90			.05		.08	.12			T.		2.75	
Zelienople|||	Ohio.....				.19	T.	T.	T.	.29	.05	T.		.03	T.	.02	T.	.01		.25	.65			.39	.15		T.		.15	.02	T.			2.20	
Lake Drainage.																																		
Erie***	Lake Erie.....		T.		.03	.03	.06	T.	.17	.09		.11	.15	T.	T.	.07		.01	.45		T.	.09	.05	T.	T.		.06	.18	.05			.22	1.82	
West Bingham.....	Genesee.....		T.		T.	T.	.05	.05		.80			T.			.10</																		

Daily Temperatures for January, 1926

Stations		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Allentown.....	Maximum.....	42	40	43	40	47	48	36	28	31	35	35	32	22	29	35	38	39	57	54	48	45	28	29	32	27	34	39	21	28	48	40	36.6
	Minimum.....	20	23	34	38	36	35	31	20	20	21	14	15	8	7	9	20	18	18	37	29	30	21	14	13	18	18	21	20	2	4	20	20.5
Altoona.....	Maximum.....	38	36	42	38	57	57	33	22	26	27	35	33	23	25	33	37	37	42	47	46	46	39	22	23	22	29	30	23	21	52	40	34.9
	Minimum.....	22	30	25	33	35	33	30	14	17	22	23	13	4	18	21	10	16	32	34	30	86	9	6	10	8	12	23	2	-8	15	31	19.1
Beaver Dam.....	Maximum.....	39	40	39	44	55	54	36	28	29	29	36	35	25	26	34	43	45	45	48	45	43	32	21	25	26	29	31	35	21	53	51	36.8
	Minimum.....	23	32	20	35	36	35	26	20	22	25	24	14	5	6	9	10	17	35	34	34	31	10	8	16	6	11	24	5	-8	16	27	19.6
Bradford.....	Maximum.....	39	35	33	42	51	50	31	25	28	26	.....	.....	.....	.....	.....	39	.....	44	42	43	41	29	22	19	24	30	30	25	15	51	45	34.4
	Minimum.....	18	27	29	32	36	29	17	3	19	21	.....	.....	.....	.....	.....	-1	.....	19	31	32	28	8	9	12	14	0	19	-1	10	15	27	17.1
Bradys Bend.....	Maximum.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brookville.....	Maximum.....	37	33	40	37	50	43	29	24	26	28	34	25	24	29	34	41	42	40	38	43	40	29	20	21	30	28	19	34	52	40	33.5	
	Minimum.....	-1	15	12	33	34	27	9	11	19	22	23	-18	-6	-6	3	-5	5	34	28	34	3	6	7	5	3	0	11	-13	-19	25	24	10.5
Carlisle.....	Maximum.....	50	49	47	39	50	52	39	29	35	37	36	35	26	34	39	45	36	36	56	60	47	38	35	35	32	36	41	35	32	50	39	40.3
	Minimum.....	15	31	20	32	33	37	27	20	20	28	-5	22	-6	0	19	6	6	28	36	25	32	17	14	22	15	12	20	-6	-6	11	28	17.8
Catawissa.....	Maximum.....	40	40	44	43	45	44	37	28	35	33	39	29	21	36	41	41	39	46	54	44	44	28	29	34	30	30	37	20	25	45	34	36.6
	Minimum.....	16	28	36	40	40	36	15	15	20	21	5	15	-6	-4	5	5	10	35	35	35	24	15	10	20	8	8	20	12	-2	12	25	17.9
Chambersburg.....	Maximum.....	48	47	50	40	49	49	38	26	30	33	32	37	21	29	41	39	38	54	56	44	40	33	32	25	32	39	37	26	46	38	38.4	
	Minimum.....	23	32	29	33	34	31	26	20	22	-2	21	2	4	18	9	9	32	36	27	32	17	14	20	15	13	21	8	0	13	30	19.6	
Claysville.....	Maximum.....	38	38	43	49	57	52	34	27	27	29	36	33	25	26	33	49	49	54	47	56	46	33	21	26	32	31	31	34	28	57	51	38.5
	Minimum.....	22	27	21	38	46	32	23	18	21	21	22	12	4	8	24	7	25	39	35	39	32	7	1	13	2	8	24	2	-9	16	28	19.6
Clearfield.....	Maximum.....	39	46	39	37	56	53	38	26	29	33	37	35	23	28	37	46	40	45	46	43	45	38	23	21	28	29	34	32	18	40	38	36.2
	Minimum.....	15	31	18	33	34	32	22	12	21	21	23	18	-6	11	20	16	10	36	34	34	34	-1	6	11	6	7	10	-10	-7	16	27	17.2
Coatesville.....	Maximum.....	46	42	42	41	44	50	39	26	28	39	34	33	24	26	41	36	42	53	52	58	45	42	29	32	25	35	39	36	21	39	38	37.8
	Minimum.....	9	24	19	30	34	35	24	19	20	15	6	18	3	8	12	16	15	35	31	25	30	15	12	18	16	10	20	6	1	11	30	18.1
Corry.....	Maximum.....	36	32	37	40	45	44	28	26	29	29	31	30	23	22	26	40	43	44	43	38	34	27	19	19	23	26	27	23	14	50	44	32.0
	Minimum.....	18	25	17	31	35	27	15	4	19	20	19	8	0	5	20	-1	25	36	28	27	24	5	8	10	11	3	15	2	-9	14	26	15.7
Emporium.....	Maximum.....	38	36	38	39	58	50	33	28	30	29	35	33	22	24	37	38	38	44	44	44	41	30	22	22	27	28	31	30	21	50	40	34.8
	Minimum.....	19	33	30	35	35	31	17	10	22	26	34	7	-9	10	22	0	6	34	30	30	10	11	14	10	1	18	-2	-12	20	26	17.4	
Erie.....	Maximum.....	40	33	40	44	48	38	29	26	30	30	33	22	23	29	33	41	45	50	40	43	32	18	18	23	22	28	29	18	37	49	44	33.4
	Minimum.....	24	30	26	38	37	29	20	14	20	23	22	8	7	11	23	16	38	34	31	32	18	10	12	15	15	18	1	-2	37	26	20.9	
Franklin§§.....	Maximum.....	41	35	41	42	49	40	30	29	28	28	34	23	33	37	42	46	45	41	45	40	16	24	24	21	30	35	14	41	50	39	34.4	
	Minimum.....	16	23	14	14	33	34	22	12	14	20	22	14	-7	-2	-3	-1	1	12	30	33	8	8	7	4	6	6	-9	-8	25	12.5	.....
Gettysburg.....	Maximum.....	46	51	46	41	39	49	39	30	33	37	35	36	25	32	42	40	42	42	61	66	55	40	36	36	28	35	42	38	29	40	41	40.4
	Minimum.....	24	32	30	31	35	31	30	20	26	0	22	2	5	17	14	12	32	38	27	33	18	13	20	16	10	23	10	0	26	30	20.9	
Greensburg.....	Maximum.....	37	36	44	49	57	51	34	26	26	29	35	33	26	26	33	45	49	50	46	48	45	33	19	23	31	33	29	34	25	43	37.0	
	Minimum.....	20	30	25	38	48	33	22	18	21	23	25	15	11	12	26	12	29	42	36	32	33	9	6	10	5	10	24	3	-6	23	33	21.5
Grove City.....	Maximum.....	36	34	37	43	49	49	40	21	25	28	34	30	22	28	32	39	45	47	44	41	42	29	22	21	27	33	28	19	18	47	45	34.0
	Minimum.....	18	28	13	36	40	31	21	14	20	21	22	8	-7	4	21	1	19	38	36	29	7	6	12	-1	6	19	1	-9	18	28	17.1	
Hamburg.....	Maximum.....	32	32	44	41	44	43	38	32	33	34	30	33	22	26	36	36	36	50	55	43	41	41	30	26	28	32	37	31	24	42	41	35.9
	Minimum.....	12	20	30	32	35	34	29	24	15	25	0	16	-1	1	10	10	21	32	30	26	31	20	13	14	15	11	26	12	0	12	30	18.9
Harrisburg.....	Maximum.....	46	45	43	40	46	47	38	28	31	34	38	34	22	28	37	37	38	43	51	54	42	35	31	31	27	32	39	34	24	44	40	37.2
	Minimum.....	25	31	28	34	36	34	22	19	20	18	10	15	7	9	23	21	20	33	36	31	35	15	15	20	18	18	24	8	5	18	33	22.0
Hawley.....	Maximum.....	38	38	37	37	43</																											

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXI.

FEBRUARY, 1926.

No. 2

GENERAL SUMMARY.

The month as a whole averaged slightly above the February normal in temperature and there were no cold waves of long duration. The lowest for the month occurred at most stations on the 11th or 12th, when readings below zero were recorded at several stations in the mountain districts. The maxima for the month occurred quite generally on the 25th, on which date thundershowers occurred at several stations in the south and southeastern part of the State. Heavy snowfalls were recorded throughout the State on the 3d-4th and again on the 9-10th. In some sections the roads were impassible for several days following these two storms. The snow covering afforded ample protection to winter grains until the 25th when warm rains in all sections resulted in considerable thawing, and at the close of the month the ground was bare in southern counties. Farming operations were at a standstill most of the month. A violent wind storm on the 25th resulted in considerable minor damage in southwestern sections, particularly in the Pittsburgh district and also at Greensburg and Uniontown. Flood stages with some minor damage were reached in the Shenango river at Sharon on the 27th, in the Schuylkill, at Reading, on the 26th, while at Franklin the Allegheny river was gorged the entire month, and attained a stage of 24.0 feet during the night of the 26-27th. At the close of the month the situation at Franklin was still threatening and promised serious results at both Franklin and Oil City in the event of the gorge breaking suddenly. F. H. A.

TEMPERATURE.

The mean temperature for the State, as determined from the records of 83 stations was 28.7°, or 1.0° higher than the February normal. The highest monthly mean was 34.5° at Hanover, and the lowest, 21.0°, at West Bingham. Temperature extremes for the month ranged from a maximum of 65°, at Hanover, on the 23d, to a minimum of -13°, at both Lawrenceville and Towanda on the 12th. The greatest daily range of temperature was 52°, at Wellsboro, and also West Bingham, on the 17th.

PRECIPITATION.

The average precipitation (rain and melted snow) for the State, as deduced from the records of 130 stations, was 4.06 inches, which is 1.40 inches more than the February normal. The greatest monthly total was 7.29 inches, at Freeland, while the least for the month, 1.34 inches, was recorded at Brookville. The greatest amount recorded in any 24 consecutive hours was 2.70 inches at Snow Hill, on the 3d-4th. The snowfall averaged 23.3 inches, or an excess of 12.9 inches, as compared with the normal snowfall for the month. The greatest total snowfall for the month 47.3 inches was recorded at Freeland, which station also reported the greatest 24-hour snowfall of 26.0 inches on the 3d-4th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total move- ment, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	*Highest	Direction	Date
Erie.....	62.9	296.6	21	82	76	9,189	13.7	64	sw.	26
Harrisburg.....	110.9	299.7	37	76	71	5,007	7.5	29	sw.	26
Philadelphia.....	112.9	299.7	38	74	67	7,353	10.9	35	sw.	25
Pittsburgh.....	62.2	298.2	21	83	76	8,730	13.0	57	sw.	25
Reading.....	105.8	299.7	35	80	77	5,548	8.3	23	se.	25
Scranton.....	130.8	298.2	44	81	71	5,317	7.9	32	sw.	26

* For any five-minute period.

COMPARATIVE DATA FOR FEBRUARY

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	28.4	63	-31	2.50	4.97	0.89	7	11	11
1889.....	23.0	60	-27	1.96	3.87	0.97	7	9	12
1890.....	37.0	79	0	4.32	6.39	2.28	6	8	14
1891.....	34.8	70	-7	4.61	8.29	2.13	6	8	14
1892.....	31.6	62	-18	1.75	4.48	0.43	7	7	15
1893.....	27.3	60	-16	5.92	9.28	2.92	6	8	14
1894.....	27.6	64	-24	3.53	5.59	1.62	8	9	11
1895.....	20.2	60	-26	1.22	3.47	0.17	10	10	8
1896.....	29.4	65	-21	4.90	9.08	1.94	9	7	13
1897.....	30.6	67	-14	3.28	6.67	1.04	7	8	13
1898.....	29.4	72	-16	2.23	4.05	0.96	8	8	12
1899.....	22.7	67	-39	4.05	10.22	0.98	8	7	13
1900.....	27.1	81	-17	4.22	7.75	1.00	8	6	14
1901.....	21.7	57	-22	0.96	2.75	0.27	10	9	9
1902.....	23.9	64	-24	3.99	7.43	0.45	9	7	12
1903.....	30.5	68	-17	4.49	6.13	1.30	10	7	11
1904.....	21.8	68	-27	2.41	4.80	0.92	10	7	12
1905.....	20.8	59	-25	1.70	2.83	0.44	10	8	10
1906.....	28.0	79	-21	1.70	3.80	0.36	12	7	9
1907.....	22.8	56	-20	1.91	4.37	0.66	12	7	9
1908.....	24.8	64	-29	4.65	8.15	2.51	10	7	12
1909.....	35.8	73	-9	4.84	9.56	2.40	6	7	15
1910.....	26.6	65	-22	3.59	5.39	1.41	9	7	12
1911.....	31.0	66	-8	2.27	3.76	0.85	7	6	15
1912.....	23.7	67	-27	2.20	4.05	0.37	11	8	10
1913.....	27.4	67	-9	1.84	4.61	0.88	12	5	11
1914.....	21.8	65	-27	2.78	6.20	1.30	11	6	11
1915.....	33.3	73	-9	3.90	6.95	1.85	9	5	14
1916.....	25.7	67	-22	3.08	5.86	1.30	8	7	14
1917.....	25.6	68	-29	1.46	3.37	0.55	9	9	10
1918.....	28.2	69	-34	2.46	4.82	0.55	10	8	10
1919.....	32.0	66	-7	2.23	4.27	1.03	12	6	10
1920.....	25.6	62	-20	2.44	5.23	0.70	9	8	12
1921.....	32.8	76	-15	2.59	4.79	1.41	8	8	12
1922.....	33.0	74	-19	1.99	3.61	0.67	9	9	10
1923.....	24.6	58	-20	2.16	4.80	0.65	8	8	12
1924.....	26.9	70	-25	2.94	5.16	1.27	11	7	11
1925.....	35.6	71	-11	2.16	4.61	0.55	11	7	10
1926.....	28.7	65	-13	4.06	7.29	1.34	7	6	15

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	7.1	9.7	28	2.5	1	18
Phillipsburg.....	Delaware.....	8.8	20	3.8	25		22
Mauch Chunk.....	Lehigh.....	6.3	26	4.3	23		12
Wilkes-Barre.....	Susquehanna.....	7.3	11.5	18	5.0	11	20
Williamsport.....	Susquehanna.....	4.3	10.4	28	2.1	14	20
Harrisburg.....	Susquehanna.....						17
Freeport.....	Allegheny.....	8.0	15.4	26	4.5	13	22
West Newton.....	Youghiogheny.....	6.4	12.4	2	3.4	18	20
Lock No. 4.....	Monongahela.....	19.7	30.5	15	15.7	1	31
Pittsburgh.....	Ohio.....	12.6	19.1	26	9.3	1	22
Beaver Dam.....	Ohio.....	14.3	25.0	27	8.3	14	30

Climatological Data for February, 1926

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation, 01 in or more	Clear	Pt. cloudy		Cloudy	Prevailing direction of wind
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	14	28.3		50	25	10	6	30	4.54	+1.53	1.15	25.0	13	10	12	6	ne.	John A. Frick.
Altoona.....	Blair.....	1,615	39	28.0	+2.2	51	22	2	11	33	3.04	+0.93	0.81	34.0	13	9	6	13	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	295	42	29.8	0.0	50	26	11	9	22	2.47	-1.02	0.72	17.4	10	9	7	12	nw.	Lehigh University.
Biglerville.....	Adams.....	652	4	30.0 ^a		47 ^a	26	6 ^a	6	31 ^b	57.4		1.60	22.6	7					R. C. Walton.
Bustleton.....	Philadelphia.....	125	7																	Experiment Station.
Canton.....	Bradford.....	1,300		23.8		46	18	3	9	31	4.63		1.60	30.7	13	7	5	16	sw.	Marble Laboratory, Inc.
Carlisle.....	Cumberland.....	467	59	30.5	+1.1	49	22	3	6	41	5.80	+2.83	1.71	36.0	10	9	7	12	nw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	29	28.6	-0.5	50	17	8	11	36	5.07	+2.39	2.45	33.5	10	11	4	13		H. H. Yetter.
Center Hall.....	Franklin.....	1,272	30	30.0	+4.1	52	8	2	11	36	4.66	+2.36	1.65	32.0	8	11	7	10		S. W. Smith.
Chambersburg.....	Franklin.....	580	26	30.3	-0.5	59	22	2	12	37	4.99	+2.08	1.42	26.8	10	7	7	14	n.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	16	28.4	+0.9	49	17	0	17	49	2.19	-0.50	0.80	33.0	11	9	11	8	w.	E. W. Hess.
Coatesville.....	Chester.....	380	38	29.0	-0.9	52	25	9	6	29	4.44	+0.34	1.02	28.5	11	7	10	11	nw.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	16	29.1		47	25	8	6	31	3.93	+1.05	0.68	21.5	12	8	4	16	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	38	26.6	+1.9	45	18	-6	17	50	4.48	+1.61	0.90	21.5	13	8	4	16	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	25	30.8	+2.7	49	25	7	6	29	3.74	+0.58	1.04	18.6	10	9	6	13	w.	Ira J. Keath.
Freeland.....	Luzerne.....	1,970	11	21.8		48	18	-1	11	30	7.29		2.54	47.3	13	9	3	16	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	19	30.4	+0.7	51	25	3	11	31	3.81	+0.71	1.50	22.1	10	12	3	13	w.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	600	52	31.9	+1.6	50	18	11	6	33	4.04	+1.23	1.15	23.4	11	7	7	14	w.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	22	27.4	+2.1	51	18	-7	12	40	4.53	+1.06	1.35	37.0	10	13	3	12	e.	Capt. J. G. Johnson.
Gouldsboro.....	Wayne.....	1,875	2	21.2		45	18	-8	9	41	4.30	-0.57	1.10	29.5	11	12	3	13	s.	Gustav Holtz.
Hamburg.....	Berks.....	535	33	28.6	-0.2	49	26	3	6	32	4.66	+1.27	0.94	22.0	10	10	7	11	w.	State Sanatorium.
Hanover.....	York.....	600	22	34.5	+2.8	65	23	9	11	47	3.57	+0.83	0.88		10	13	7	8	w.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	66	30.4	+0.2	48	25	11	11	26	4.81	+2.11	1.31	23.9	11	7	5	16	nw.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	7	24.4		50	18	-10	9	41	5.52		2.40	32.4	10	12	1	15	w.	J. S. Pennell.
Holtwood.....	Lancaster.....	200	11	31.6		50	25	13	11	2	3.81		1.00	13.5	8	11	1	16		H. W. Lowy, C. E.
Huntingdon.....	Huntingdon.....	650	38	30.8	+2.4	52 ^a	22	5	17	44 ^a	4.26	+1.42	0.90	21.5	11	5	6	17	nw.	Prof. W. J. Swigart.
Hyndman.....	Bedford.....	977		33.2		60	21	2	6	46	3.23		0.81	22.2	11	4	5	19		John S. Madore.
Lancaster.....	Lancaster.....	255	38	29.4	-0.4	49	25	-1	12	39	3.62	+0.94	0.90	22.0	11	12	8	8	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	28	24.4	+1.4	45	15	-13	12	47	3.48	+1.65	0.80	23.5	9	10	3	15		C. P. Darling.
Lebanon.....	Lebanon.....	469	85	28.8	+0.1	50	18	11	6	33	2.97	-0.50	0.85	15.9	12	14	6	8	e.	S. B. Benzing.
Lewisburg.....	Union.....	450	51	26.8	+1.0	43	15	-1	9	40	5.27	+2.48	1.35	34.0	12	6	7	15	w.	Prof. W. G. Owens.
Lykens.....	Dauphin.....	680	11	28.8		51	22	1	6	42	4.76		1.31	23.0	12	10	5	13	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	35	28.2	+1.2	49	18	3	6	34	6.06	+2.19	1.93	28.4	10	10	5	13	nw.	R. K. Wintermute.
Mifflintown.....	Juniata.....	445	22	29.5	+2.8	53	22	3	6	35	3.81	+1.47	1.12	24.8	11	12	0	16	nw.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	23	22.3	+2.0	46	18	-3	17	44	2.93	+0.86	0.98	35.0	7	6	4	18	w.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,658	23																	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	14	24.8		47	18	-10	12	44	4.68	+2.31	1.28	25.5	9	10	8	10	w.	A. H. Boatman.
Narberth.....	Montgomery.....	300	7	31.0		51	25	9	11	26	3.67		0.80	15.8	12	8	6	14	nw.	Charles Decker.
Neshaminy Falls.....	Bucks.....	60	37	28.0		53	25	5	6	38	3.41		0.73	16.5	11	13	2	13	w.	North Springfield Water Co
Palmerton.....	Carbon.....	398	9	26.2 ^a		49 ^a	18	2 ^a	6	34 ^a	1.53		0.81	18.5	9	13	4	11	ne.	F. G. Breyer.
Philadelphia.....	Philadelphia.....	114	55	33.6	-0.3	53	25	14	11	24	3.18	-0.20	0.90	15.4	11	8	7	13	nw.	U. S. Weather Bureau.
Phila. Navy Yard.....	Philadelphia.....	12	10	31.7		53	25	13	11	24	4.26		1.23	19.5	12					Commandant, Navy Yard.
Phila. Point Breeze.....	Philadelphia.....	90	1	32.7		53	25	15	11	23	3.42		0.55	17.3	12	8	7	13	nw.	Atlantic Refining Co
Philadelphia-Gtn.....	Philadelphia.....	113	1	33.6		52	25	14	11	22	3.49		0.75	15.5	10	7	7	14	w.	Julius Bernstein.
Phoenixville.....	Chester.....	100	15	30.1		52	25	5	6	32	4.18			20.3	11	13	9	6	w.	North Springfield Water Co
Quakertown.....	Bucks.....	496	41	27.8	-0.4	48	18	-2	6	37	4.42	+0.66	1.51	23.5	13	11	5	12	nw	John E. Benner.
Reading.....	Berks.....	325	56	31.2	+2.4	53	25	14	11	24	3.82	+0.32	0.87	22.3	13	8	4	16	nw.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	31	25.4	-1.9	51	18	6	9	31	3.61	+0.89	1.39	21.8	11	1	9	18	nw.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	36	30.7	+3.6	52	19	6	17	36	5.56	+2.62	2.04	25.5	10	8	10	10	sw.	Dr. George E. Fisher.
Shawmont.....	Philadelphia.....	51	30	31.7		50	25	13	11	24	3.17	-0.01	0.84	12.5	9	9	5	14	nw.	W. S. Guiles.
State College.....	Center.....	1,217	41	28.2	+2.7	52	22	4	11	40	4.45	+1.66	1.29	22.7	13	3	10	15	w.	C. A. Kern.
Towanda.....	Bradford.....	754	31	23.1	-0.5	45	25	-13	12	42	4.89	+2.98	1.72	30.9	11	4	8	16	e.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	60	22.2	-2.4	49	18	-11	12	52	3.93	+1.58	1.57	22.0	12	12	5	11	w.	George W. Hill.
West Chester.....	Chester.....	455	88	30.2	-0.6	52	25	9	11	27	3.42	-0.48	0.85	16.8	10	14	2	12	nw	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	39	27.9	+1.3	48	25	4	12	33	5.48	+2.92	1.64	25.0	11	14	1	13	nw.	George A. Beck.
York.....	York.....	400	38	31.4	+1.8	52	18	-2	12	41	3.26	+0.23	0.74	15.0	10	10	8	10	w.	York Water Co.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	33	31.7		57	25	7	12	31	3.49	+1.18	0.81		19	2	3	23	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	11	25.4		50	18	-5	17	49	3.28		0.95	19.8	19	4	7	17	w.	City Engineer.
Brookville.....	Jefferson.....	1,173	35	23.6 ^b	-0.7	49 ^b	25	-5 ^b	17	50	1.34	-1.11	0.64	13.7	6	7	10	11		John Fawcett.
Claysville.....	Washington.....	1,150	22	31.8	+2.0	61	21	7	11	39	4.27	+1.78	1.03	23.6	15	7	3	18	n.	J. L. Melvin.
Corry.....	Erie.....	1,430	14	24.2		44	18	0	11	42	3.41		0.59	33.3	20	3	6	19		Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	29	31.4	+3.3	56	25	7	11	40	4.28	+1.29	0.86	21.0	18	3	13	12	w.	Wm. A. Huff, Jr.
Ebensburg.....	Cambria.....	2,000	8	27.7		58	21	0	11											

Daily Precipitation for February, 1926

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Blentown	Lehigh	.69	.24		1.15	.06					.24	T.	T.	.01	.18	.30				.25	.33	.04		.15				.90					4.54	
Blount	Juniata	.26		.26	.55				.02		.10			.24	.53	.07				.07	T.			.05			.59	.12					3.04	
Blount	W. Br. Susq.	.64	.16		.56	T.			T.		.15			.07	.04	.49	T.			.14	.02	.05				.12	.83						3.27	
Baker's Summit	Juniata	.11			1.50						.50				.76						.14				.24		.59						3.84	
Bethlehem	Lehigh	.15		.03	.30						.41			.08	.25					.15	.19					.72							2.47	
Biglerville	Susquehanna	1.22			1.60						1.20			.23							.07				.17		1.25						5.74	
Boserville	Lower Susq.	.70	.80		.80					.20	.50	.90		.10	.12						.12				.10		1.00						5.34	
Bustleton	Lower Del.																																	
Banton	N. Br. Susq.	.49		.10	.84	.01	.01		.01	.09	.06			.15	.60						.37						1.60	.30					4.63	
Carlisle	Lower Susq.	.68		.58	1.71						.54			.12	.30					T.	.34	.02		T.	.26		1.25	T.					5.80	
Catawissa	N. Br. Susq.	.40		.50	2.45					.15				.20	.52						.20		T.				.60	.05					5.07	
Center Hall	Susquehanna	.22		.48	1.65						.41			.26	.38						.48						.78						4.66	
Chambersburg	Potomac	.26		.59	1.05				T.	.31	.46			.28	.22					T.	.31				.09		1.42						4.99	
Clearfield	W. Br. Susq.	.27		.08	.40	T.			.03	T.	.05		T.	.05	.10						.35	T.	.04				.80	T.		.02			2.19	
Coatesville	Lower Del.	.49		.25	1.02					.05	.75			.10	.22						.05	.34				.43		.74					4.44	
Colebrook	Lower Susq.	.45	T.		1.14					.03	.28			.23	.40	T.					.14	.41		.02		.15		.68	T.	T.			3.93	
Conshohocken	Schuylkill	.70		.87	.09					T.	.98			T.	.05						.07	.30			T.	.10	.04	1.00					4.20	
Cresson	Juniata		.23	.05	1.57	.05			.08		.48	.02	.03	.05	.05	.65	.10			.17	.08	.04			.20		.10	.20	.05				4.20	
Croylestown	Lower Del.	.20			.44					.12	.60			.10	.40				T.		.68	.03			.20		.69	.10					3.56	
Croftwood	W. Br. Susq.	.60	.08		.64		.01			T.	.10			.13	.09	.65	.02				.25	.02	.14	T.			.34	.72					3.79	
Cumport	do.	.40		.40	.90		.10		T.	.20	T.			.30	.42	.28				T.	.32	.10	.05				.68	.33			T.		4.48	
Cumport	Lower Susq.	.26		.46	1.04					T.	.34			.12	.39	T.					.46				.15		.49	.03					3.74	
Cumport	N. Br. Susq.	.85	.06		.61			.06		.09	.07			.11	.61	T.				.17	T.		.03			.31	.21						3.18	
Cumport	Lehigh	.64	.51		.24	.41		.05		.25	T.			.03	.21	.50	T.	T.		.31	.36	T.					1.40	.08					7.29	
George School	Lower Del.	.36		.10	.41		T.			T.	1.50			.01	.27	.02			T.	.43				.11		.60	T.						3.81	
Gettysburg	Potomac	.55		.36	.52				.02	.09	.53			.12	.22						.34				.14		1.15						4.04	
Gettysburg	Susquehanna	.66		1.00	.75		.02	T.		.19		T.		.40	.27					.20	.52			.01	.08		1.30						5.40	
Gettysburg	Lower Susq.	.60			.62				.05	.05				.06	.90						.48				.30		1.35	.12					4.53	
Gettysburg	Lehigh	.50	.27		.75	.50		.10			.18				.18	.09					.54	.09					1.10						4.30	
Gettysburg	Schuylkill	.49		.06	.63				.08	.84				.06	.48	.03					.32				.18		.43	.26					3.90	
Gettysburg	Schuylkill	.60		.20	.80				.10	.20				.20	.66						.86				.10		.94						4.66	
Gettysburg	Lower Susq.	.43		.15	.48				.06	.50				.11	.45						.24				.27		.88						3.57	
Gettysburg	do.	.50		.95	.07				.09	.45			T.	.22	.44		T.				.31	T.		T.	.24		1.31	T.					4.81	
Gettysburg	Lower Susq.	.65		.175						.32					.48						.51	T.				.17		1.26						5.14
Gettysburg	do.	1.17	.23		1.36	.02				.23	.01				.16	.35					.52		T.		.08		1.09							5.22
Gettysburg	Upper Del.	.75	.27		2.40	.22				.27					.58						.03	.26					.70			.04				5.52
Gettysburg	Lower Susq.	.33			1.00					.70				.38						.20					.60		.49	.11					3.81	
Gettysburg	Juniata	.10		.50	.90				.10	.45				.20	.55				T.		.36				.21		.52	.07					4.26	
Gettysburg	Potomac	.14		.63	.60		T.	.06		.04	.36			.16	.33	T.	T.			T.	.06				.04		.81	T.	T.				3.23	
Gettysburg	Lower Susq.	.55		.30	.30				.30	.90				.09	.25	.06					.20				.20		.47						3.62	
Gettysburg	Lehigh	.36	.07		.88	.02				.05				T.			.56				.20		.18		T.	.04		.06	1.50					3.92
Gettysburg	N. Br. Susq.	.40		.05	.80				.14	.15				T.	.74						.82		.10				.78	T.						3.48
Gettysburg	Lower Susq.	.19		.78	T.				.01	.01		.04		.05	.44					.29	.21	T.	T.	.09		.01	.85							2.97
Gettysburg	W. Br. Susq.	.70	.01	.30	1.35				.13	.05				.30	.82	.02					.52						1.02	.05						5.27
Gettysburg	do.	.21		.14	.65				.01	.08				.09	.40						.56				.11		1.06	.02						2.57
Gettysburg	Susquehanna	.52		.20	1.31				.01	.08				.13	.47	.05					.56				.11		1.28	.04						4.76
Gettysburg	Lehigh	.52		.33	1.72		.02		.09	T.				.10	.55						.73				.07		1.93							6.06
Gettysburg	Juniata	.33		.25	.89				.03	.16				.09	.46				T.		.33				.12		1.12	.03						3.81
Gettysburg	N. Br. Susq.	.30		.90		.10			.25					.10							.30						.98							2.93
Gettysburg	N. Br. Susq.	.29		.15	.94		.05		.10	.06				.11	.66	.08					.24						.77	.13						3.58
Gettysburg	Upper Del.										.45					.55																		3.77
Gettysburg	Juniata	.43	T.	T.	1.12		T.		.09	T.				.16	.69	.06					.63				.09		1.28	.14						4.68
Gettysburg	W. Br. Susq.																																	

Daily Precipitation for February, 1926—Continued from page 8

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio Drainage.																																	
Beaver Dam|||	Ohio.....	.81	.01	.03	.45			.03		.06	.45	.02		.10	.17	.37	.01	*	.38	.02	T.		.01		.43	.13	.01						3.49
Beaver Falls|||	Beaver.....	.71	T.	.03	.45	T.		.03	.01	.14	.43	.02	T.	.10	.14	.08	.03		.42	.08	.02		T.	T.	.49	.03	.03						3.24
Bradford	Allegheny.....	.30	T.	.05	.45	T.	.08	.06		.15	.08	.02		.20	.10	.06	.06		.25	.08	.15	T.	T.		.95	.15	.04	.05					3.28
Brookville.....	do.....	.07	T.	.64	T.		.13			.25	T.	T.	T.	.10					T.	T.	.15					T.	T.	T.					1.34
Clarion.....	do.....																																
Claysville.....	Ohio.....	.07		.56	.12		.02	.04	.12	.09	.48	.02		.23	1.03	.03	T.		T.	.57	T.	T.		.23		.66							4.27
Cloeff.....	Allegheny.....	.06		.50	.15		.06			.05	.11	T.	.05	.22	.78				.11	.36	.06					.78	T.						3.29
Clymer|||	Conemaugh.....	.33		.15	.56		T.			.16	.21	*		.26	.78	.26			.44				.05		1.04	.11							4.35
Colegrove|||	Allegheny.....																																
Confluence|||	Youghiogheny.....	.18	.07	.08	1.46	.06				.10		.72	.10	.20	.30	.34			.15				.25		.17	.30							4.48
Corapolis|||	Ohio.....	.45	.3	.04	.92	T.	T.	T.	T.	.10	.53	.01	T.	.19	.23	.43	T.	T.	.33	.05	.04		.03	T.	.38	.34	.05						4.15
Corry.....	Allegheny.....	.53	T.	.10	.17	T.	.12	.14		.19	.03	.02	T.	.21	.06	.04	.05		.04	.36	.12	.17			.59	.41	.03	.03					3.41
Coudersport.....	do.....			.50	.50		.20			T.	T.		.40						.25	.04	.04				\$	\$							\$
Creekside	Allegheny.....			.86						.30				.01	.98				.52				.10		.40								3.17
Derry.....	Conemaugh.....	.07		.86	.46		.02		.04	.09	.36	.02		.18	.61	.03	.10		.59			.04		.17	.51	.10	.03						4.28
Ebensburg	Conemaugh.....			.60	1.60					.60	.20			.25	.10		.20								.95	T.	T.	.07					6.87
Elk Lick.....	Youghiogheny.....			1.00	.60		.10	.22	.20	.80	.40			.20	.25	.10			.45	.05			.30		.60	.20	.05						5.52
Falls Creek	Allegheny.....	.12			.77			.10		.26				.28	.51				.38	*	.20			1.01	.16								3.79
Franklin|||	Allegheny.....	.82	.10		.38					.10	.18	T.		.20	T.	.32	.13		.29	.05	.27				.38	.58	.09						3.89
Freeport|||	Allegheny.....	.52	.06	.07	.78	.08				.03	.45	.09		.20	.25	.48	.05		.39	.03	.02		.20		.20	.24							4.14
Greensburg	Youghiogheny.....	.10	T.	.56	.62	.03	T.	.03	.04	.18	.46	.06		.18	.77	.03	.03	T.	.48	T.	T.		.16		.42	.04	.02						4.21
Greenville	Beaver.....	1.42			*	.36		.10		.35		.13		.33		.06	.02		.50	.15					.60	.04							4.06
Grove City	Beaver.....	.03	.04	.08	.26	.02	.01	.06		.30	.02	.04		.07	.17	.08	.01		.11	.08	.04				.72	.21	.03	.01					2.39
Herrs Isl. Dam|||	Ohio.....	.50	.01	.05	.76	T.	T.	.09	.01	.05	.53	T.	T.	.31	.13	.59	.04	T.	.43	.05	.06		.10		.30	.23	.03	T.					4.27
Indiana	Conemaugh.....	T.		.23	.60		T.	.01		T.	.05			.60	.50				.48	T.			.10		.80	.05	.03						3.45
Ingram	Ohio.....	.06		.46	.33	.01	.02	.05	.08	.17	.45	T.		.22	.69	.02	.01		.53	.04			.08		.63	.10	.02						3.99
Irwin	Youghiogheny.....	.12	.01	.45	.40	T.	T.	.02	.04	.16	.48	.04		.20	.67	.01	T.	T.	.30	T.			.05		.74	.04							3.73
Johnstown	Conemaugh.....	.08	.01	1.17	.70	.03	T.	.06	.02	.10	.50	.14	.09	.05	.85	.05	.10		.01	.20	.06	.02	.08	.20	.57	.16	.09						5.34
Ketner|||	Allegheny.....	.18		.15	.41		.07	.10		.10	.06			.15	.36				.32	.03	.10				.78	.04	.03	.03					2.91
Kregar|||	Youghiogheny.....	.81	.01	.10	1.25	.11		.02	.08	.05	.62	.23	.07	.14	.07	.57	.03	.02		.21	.14	.02		.30		.24	.20	.18					5.47
Linesville|||	Beaver.....	.02		.28	.02	T.	.01	.06	.10	.14	.02	T.		.19	.16	.02	.03		.30		.14				.47	.16	.04	T.					2.16
Lock No. 4|||	Monongahela.....	.39	.04	.10	1.33		T.	.02	.01	.03	.69	.09	T.	.16	.15	.61	.01	.01		.31	.12	.02		.22		.27	.61	.01					5.20
Lycippus	Conemaugh.....	.06		1.15	.81		.02			.21	.94	.22		.21	.75				.51				.38		.31	.03							5.60
Martin	Monongahela.....	.52	.05	.06	1.13	.02	T.	.04	.03	.07	.60	.10		.18	.12	.57			.33	.17			.28		.29	.21	T.						4.77
Mount Lebanon	Ohio.....	.15		.50	.34		.01	.09	.07	.14	.53	T.		.20	.73	T.	.01		.02	.54	.02		.14		.55	.05	.01						4.10
New Castle|||	Beaver.....			.37			.02	.02	.13	.14	.10			.05	.21	.05		.18	.20		.08				.54	.25	.05						2.39
Newell	Monongahela.....	.09		.58	.39	.01	.02	.01	.09		.30	.05		.30	.68	T.	T.		.39		.01		.32		.41	T.							3.65
Parkers Landing|||	Allegheny.....	.70	T.		.50	T.	T.	.15	T.	.05	.20	.10	.10	.15	.90	.35	T.	T.	.30	.10	.30		T.		.30	.20	.20	T.					4.00
Pennline|||	Beaver.....	.82	.02		.24	T.	T.	.04	T.	.08	.05	.03		.19	.16	.01	.02		.04	.32	.17		T.		.55	.16	.04	T.					2.94
Pittsburgh***	Ohio.....	.01	T.	.55	.19	T.	.01	.07	.04	.27	.42	T.	.10	.15	.62	.01	T.		.04	.32	.04		.10		.49	.04	T.						3.47
Ridgway†	Allegheny.....																																\$
Saltsburg|||	Conemaugh.....	.40	.06	T.	1.05	.05	.04		T.		.52	.13		.13	.50	.37			.25	.24			.19		.20	.53	.13						4.79
Saegerstown|||	Allegheny.....	.35	.15		.30	T.		.15			.10			.15	.02	.12	.12		.05			.15		.50	.30	.10							2.56
Sharon|||	Beaver.....	1.02			.34	T.		T.	.08	.28	T.	T.		.10	.10	T.	T.		.31	T.	.10	.02		.44	.13	T.	T.						2.92
Somersett	Youghiogheny.....																																
Springdale|||	Allegheny.....	.53	.07	.05	.78	.01		.06	.01	.06	.60	.07		.13	.20	.65	.01		.45	.09	.05		.05		.27	.28	.06						4.46
Uniontown	Monongahela.....	.13		1.17	.52		T.	.02	.11	.17	.65	.15		.60	.78	.02			.72				.32		.30	T.							5.66
Unity Reservoir|||	Youghiogheny.....	.06		.55	.95	.03		.12	.16	.90	.20		.18	.70	.04		.20		.60				.22		.60	.18							5.69
Vandergrift.....	Conemaugh.....	.10		.60	.76					*	.36				1.15	.04			.30				.30		.70	.10							4.41
Warren	Allegheny.....	.32		.10	.30		.15	.05		.10	.08	.02	.07	.10	.08	.02	.04		.27	.08	.12				.50	.14		.05					2.59
Washington	Ohio.....	.03		.82	.08	T.	T.	.02	.14	.29	.16	T.	.13	.03	.96	.01	.01		.03	.46	.01		.22	.01	.81	.01							4.23
Waynesburg|||	Monongahela.....																																
Westford|||	Beaver.....	1.23	T.	T.	.35		T.			.14	.06	T.		.21		.07	T.		T.	.15		.22			.50	.16		T.					3.09
West Newton|||	Youghiogheny.....	.42	.18	1.21			T.		.03	T.		.10	.64	.16		.20			.80	.18			.25		.10	.20							4.44
Zelienople|||	Ohio.....	.76	.04	.02	.50	T.	T.		.03	T.		.10	.31	.01	T.	.17	.18	.30	T.	T.			T.										

Daily Temperatures for February, 1926

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Allentown.....	Maximum	45	37	29	32	33	39	40	38	28	31	21	34	32	40	45	28	41	38	42	34	31	38	32	37	50	43	34	38	.....	36.1
	Minimum	32	31	27	21	24	10	14	22	13	12	12	13	20	24	30	23	15	16	30	18	19	26	18	14	20	30	28	12	.....	20.5
Altoona.....	Maximum	37	34	34	29	28	41	39	31	30	27	22	31	29	34	34	32	43	46	42	29	41	51	36	38	48	45	30	37	.....	35.6
	Minimum	32	27	23	21	15	12	26	19	24	21	2	14	25	28	32	15	10	32	23	12	26	28	16	7	27	29	18	10	.....	20.5
Beaver Dam.....	Maximum	39	36	36	33	30	38	39	35	36	35	22	32	40	40	38	36	46	47	49	33	51	50	32	46	57	51	32	39	.....	39.2
	Minimum	31	31	33	28	22	24	29	25	30	19	9	7	29	31	34	19	15	31	24	17	30	30	16	16	33	32	20	14	.....	24.2
Bradford.....	Maximum	36	30	31	27	26	33	35	36	31	30	15	33	33	35	34	30	44	50	46	27	34	42	27	41	44	43	23	35	.....	34.0
	Minimum	26	24	24	20	15	20	22	21	14	14	2	14	26	31	24	8	-5	27	19	9	17	21	5	-2	29	22	16	6	.....	16.8
Brookville.....	Maximum	37	34	31	30	33	35	32	40	32	27	19	32	33	35	35	24	45	40	38	30	.....	41	31	.....	49	37	27	36	.....	34.0 ^b
	Minimum	27	27	24	6	16	22	21	19	22	-4	3	7	27	31	19	-2	-5	21	14	9	.....	14	4	.....	-1	23	0	1	.....	13.3 ^b
Carlisle.....	Maximum	39	43	38	36	43	31	45	40	31	31	26	42	32	33	42	39	47	48	41	35	43	49	41	45	38	45	40	46	.....	39.6
	Minimum	32	33	25	23	19	3	26	25	19	22	10	11	25	30	33	24	6	24	31	17	25	20	14	8	19	32	27	16	.....	21.4
Catawissa.....	Maximum	42	40	32	28	36	42	32	34	30	30	18	36	42	40	36	26	50	40	40	36	36	38	36	42	43	40	34	40	.....	36.4
	Minimum	28	30	24	20	10	12	26	28	20	10	8	14	30	22	20	8	14	26	22	22	28	26	18	24	32	24	16	22	.....	20.9
Chambersburg.....	Maximum	38	39	36	36	34	29	45	33	31	31	26	38	30	33	42	38	44	46	38	35	38	59	47	39	37	59	38	41	.....	38.6
	Minimum	32	33	25	23	18	4	25	25	22	10	2	26	29	33	24	8	27	31	17	28	22	17	13	22	32	27	16	.....	22.0	
Claysville.....	Maximum	39	36	36	33	27	38	40	38	37	35	23	33	41	41	37	36	53	53	47	32	61	52	35	48	54	47	34	43	.....	40.3
	Minimum	29	29	31	26	20	19	29	25	32	17	7	9	28	32	20	14	34	23	15	30	34	13	9	37	31	21	9	.....	23.4	
Clearfield.....	Maximum	38	35	35	36	36	40	36	36	38	38	21	30	32	35	38	36	49	43	46	29	46	47	37	45	46	45	45	39	.....	38.5
	Minimum	34	21	26	26	16	25	26	16	19	18	3	16	26	31	28	10	0	16	19	11	21	26	11	7	21	11	16	9	.....	18.2
Coatesville.....	Maximum	38	37	36	32	30	37	38	33	29	28	19	34	37	36	44	37	40	46	44	32	37	37	36	36	52	45	38	38	.....	36.6
	Minimum	31	31	24	23	20	9	31	23	16	15	9	13	21	30	34	21	11	24	27	14	22	27	14	9	24	37	25	14	.....	21.4
Corry.....	Maximum	36	29	32	29	28	29	38	35	34	31	18	30	35	37	32	21	41	44	40	26	37	43	32	42	44	39	22	34	.....	33.1
	Minimum	22	23	23	21	12	18	18	20	15	10	0	6	22	28	20	7	2	27	16	6	20	20	10	0	28	20	14	2	.....	15.4
Emporium.....	Maximum	40	36	32	30	30	38	37	33	30	26	20	30	32	36	37	26	44	45	40	30	35	45	31	37	45	43	27	37	.....	34.7
	Minimum	30	29	26	24	18	18	27	17	13	10	5	15	20	32	26	11	-6	24	20	12	24	27	12	3	28	27	16	8	.....	18.4
Erie.....	Maximum	28	30	32	30	28	35	31	32	30	23	20	31	36	36	34	20	43	40	33	31	25	28	24	42	48	38	23	40	.....	31.8
	Minimum	25	26	24	17	16	22	23	22	23	6	6	13	28	31	19	11	16	33	12	10	15	18	15	13	35	22	13	12	.....	18.8
Franklin.....	Maximum	40	35	36	30	33	36	31	40	35	24	24	31	37	38	36	26	44	47	37	33	48	42	35	43	50	40	35	46	.....	36.9
	Minimum	26	27	27	25	16	18	23	21	23	20	4	-1	0	28	31	11	1	1	25	10	12	22	11	3	3	30	18	6	.....	15.8
Freeland.....	Maximum	34	32	26	20	22	34	33	30	20	10	10	24	32	34	38	30	34	48	38	26	30	42	24	32	42	38	26	32	.....	30.5
	Minimum	24	20	16	14	14	10	18	10	10	8	-1	0	14	24	28	10	8	26	18	5	16	16	5	8	16	18	14	2	.....	13.2
Gettysburg.....	Maximum	38	43	39	37	40	35	44	34	32	31	30	44	35	34	47	39	45	50	42	39	41	48	47	39	44	47	40	44	.....	40.3
	Minimum	32	33	25	23	20	11	32	25	26	23	11	12	27	29	34	24	12	29	35	17	27	25	19	13	25	29	16	.....	23.5	
Greensburg.....	Maximum	40	35	35	30	27	36	38	37	35	33	20	35	39	39	36	34	46	50	46	34	54	51	30	48	57	48	31	37	.....	38.6
	Minimum	30	30	30	25	19	17	29	23	31	20	10	10	31	33	33	18	11	35	25	14	32	30	16	11	37	31	19	14	.....	23.7
Grove City.....	Maximum	45	37	33	29	30	34	35	35	44	33	22	29	37	37	34	29	43	46	46	28	45	44	28	41	49	44	27	34	.....	36.4
	Minimum	27	27	28	25	26	21	30	20	18	16	2	2	26	33	29	13	14	30	21	12	23	26	13	10	34	27	9	14	.....	20.2
Hamburg.....	Maximum	41	36	36	30	31	30	39	38	30	28	27	33	32	39	39	38	40	46	43	32	33	35	38	36	46	49	40	36	.....	36.5
	Minimum	29	30	22	21	21	3	22	24	7	20	14	11	20	31	34	21	8	22	32	16	26	27	16	10	19	36	20	16	.....	20.6
Harrisburg.....	Maximum	38	40	37	36	34	31	40	32	28	29	22	36	32	41	42	35	42	48	41	35	36	44	33	37	45	48	32	39	.....	37.0
	Minimum	31	34	23	23	22	15	30	27	20	16	11	19	26	31	35	25	16	31	23	19	28	28	19	18	28	32	21	18	.....	23.9
Hawley.....	Maximum	37	31	31	25	27	35	34	30	25	30	27	25	33	30	40	38	40	50	47	27	28	30	30	35	44	44	31	32	.....	33.6
	Minimum	26	25	20	18	18	-6	29	11	-10	17	3	4	9	27	32	15	6	24	26	12	15	18	6	8	10	31	20	9	.....	15.1
Huntingdon.....	Maximum	39	38	39	34	34	.....	42	35	34	30	27	40	36	34	40	37	49	49	43	33	41	52	47	40	48	49	37	42	.....	39.6 ^a
	Minimum	32	32	25	21	18	15	32	23	20	22	7	11	26	30	34	21	5	25	31	16	28	25	15	9	24	34	24	15	.....	22.1
Indiana.....	Maximum	48	35	35	30	30	35	36	36	36	35	26	30	32	35	38	35	46	48	45	28	47	48	34	52	45	31	32	34	.....	37.2
	Minimum	30	27	27	22	15	15	27	17	31	3	9	15	18	20	18	11	17	15	31	23	19	16	32	14	20	22	10	16	.....	18.8
Johnstown.....	Maximum	39	36	35	30	28	41	40	36	35	30	20	34	40	40	36	30	48	49	40	35	53	51	35	44	51	45	29	40	.....	38.2
	Minimum	30	30	28	26	18	13	26	24	30	18	9	17	30	34	30	18	9	32	20	15	33	33	20	13	30	29	19	14	.....	23.1
Lancaster.....	Maximum	41	38	40	36	36	40	42	37	33	32	33	38	35	46	42	42	38	37	37	39	37	34	49	48	48	40	39	.....	38.2	
	Minimum	29	29	25	23	20	6	29	24	20	11	-1	17	20	30	24	13	19	24	18	26	28	18	8	24	32	28	11	.....	20.5	
Lawrenceville.....	Maximum	36	36	32	29	35	38	37	31	28	28	16	34	34	39	45	35	42	44	40	33	28	32	30	37	44	43	31	38	.....	34.8
	Minimum	33	24	22	19																											

MAY 5 1926

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXI.

MARCH, 1926.

No. 3

GENERAL SUMMARY.

The month as a whole was cold and dry, it being the coldest March since that of 1916. The snowfall was far below the normal in all parts of the State with no snow of consequence in the southeastern counties. In these counties, which constitute the chief agricultural sections of the State, there was little or no snow covering in the fields, and alternate freezing and thawing of the top soil caused considerable damage to wheat and clover. Little field work was possible until near the end of the month when there was some dormant spraying of orchards. On account of the light snow cover and the light rains, the usual March floods did not materialize. On the 18th and 19th there was a sharp rise in the streams of the Ohio and Susquehanna watersheds, but with no flood stages reported. The event of chief importance was the big ice jam in the Allegheny river. This jam first formed on January 8th about 15 miles below Franklin. At that time channels wore through the gore allowing the waters to escape while most of the ice remained. On February 25th and 26th this ice was increased by a supply from Tionesta creek and from the main stream above Warren, and on February 27th the river was gorged for a distance of approximately 40 miles. Ice readings remained above the flood stage at Franklin until March 5th, when channels again seemed to open and allowed the flood waters to escape. The gorge then fell slowly until the 20th when rains and melting snows started another rise. On the morning of the 22d the water backed up to a stage of 20.6 feet at the Franklin gage. The gorge went out on the 23d. The total damage was estimated at \$500,000 at Oil City, and \$100,000 at Franklin.

TEMPERATURE.

The mean temperature for the State, as computed from the means of 84 stations was 33.1°, or a deficiency of 4.4° as compared with the March normal. The highest mean was 39.0° at the Philadelphia Weather Bureau, while the lowest was 24.0° at West Bingham. The highest temperature recorded during the month was 79°, at Hyndman, on the 19th, and the lowest, -16°, at Saegerstown, on the 5th. The greatest daily range in temperature was 52°, at Hyndman, on the 19th.

PRECIPITATION.

The average precipitation for the State, as determined by the records from 132 stations, was 1.91 inches, or 1.63 inches less than the normal for the month. The greatest monthly total, 3.94 inches, occurred at Johnstown, while the least 0.58 inch was reported from Lawrenceville. The greatest amount recorded in any 24 consecutive hours was 1.36 inches at two stations; Philadelphia-Germantown and Pleasant Mount, on the 7th. The average snowfall for the State was 4.0 inches, or slightly more than half the March normal, 7.0 inches. The greatest monthly snowfall reported was 19.8 inches at Kregar, and the greatest 24-hour snowfall, 7.0 inches, occurred at Elk Lick, on the 2d.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total movement, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	*Highest	Direction	Date
Erie.....	176.1	370.6	48	78	74	10,683	14.4	65	se.	31
Harrisburg.....	204.4	371.0	55	64	58	6,671	9.0	32	sw.	25
Philadelphia.....	231.7	371.0	62	67	55	8,864	11.9	36	e.	31
Pittsburgh.....	173.3	370.8	47	78	64	10,351	13.9	52	se.	31
Reading.....	189.6	371.0	51	73	70	4,945	6.6	43	e.	31
Scranton.....	206.4	370.8	56	78	58	6,024	8.2	36	ne.	31

* For any five-minute period.

COMPARATIVE DATA FOR MARCH

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	31.2	72	-6	3.55	6.39	1.70	.....	.....	.....
1889.....	39.0	76	4	2.90	5.44	1.44	10	8	13
1890.....	33.2	76	-18	5.15	8.31	2.90	6	10	15
1891.....	33.8	60	-14	5.10	8.39	2.44	7	2	16
1892.....	31.8	66	-4	4.14	6.61	2.04	11	3	13
1893.....	34.8	74	3	2.52	5.09	0.71	9	9	13
1894.....	43.2	84	-2	1.63	2.90	0.24	12	11	8
1895.....	33.8	70	-4	2.31	4.03	0.99	10	10	11
1896.....	30.6	69	-18	4.51	7.98	1.77	11	8	12
1897.....	39.0	75	-5	3.22	5.86	1.01	11	7	13
1898.....	44.0	83	4	4.31	8.40	2.06	10	8	13
1899.....	36.3	75	3	4.87	10.30	1.91	5	9	17
1900.....	31.2	66	-23	3.61	7.31	2.25	10	9	12
1901.....	37.4	80	-11	4.14	7.21	1.52	7	10	14
1902.....	41.3	78	2	3.98	7.50	6.77	10	9	12
1903.....	46.4	83	14	4.52	5.81	2.82	10	7	14
1904.....	36.0	80	-2	4.29	7.02	2.10	9	8	14
1905.....	39.0	86	-18	3.86	6.57	1.40	12	8	11
1906.....	31.7	68	-13	4.46	7.37	2.76	8	7	16
1907.....	41.8	92	-10	4.26	8.20	1.08	11	8	12
1908.....	40.7	83	-4	4.76	10.00	1.58	11	8	12
1909.....	35.6	74	-5	3.07	4.90	1.33	10	9	12
1910.....	44.9	88	5	0.56	1.33	0.00	15	10	6
1911.....	35.0	73	-18	2.57	4.75	1.15	11	8	12
1912.....	33.6	72	-8	5.05	9.71	1.80	10	8	13
1913.....	42.1	81	-7	5.27	9.08	2.75	9	8	14
1914.....	34.2	79	-12	2.61	5.08	0.88	10	3	13
1915.....	32.9	62	-4	1.28	2.80	0.57	15	8	8
1916.....	30.7	84	-31	4.12	8.84	2.20	12	8	11
1917.....	37.3	84	-12	3.68	6.06	1.43	11	8	12
1918.....	41.6	82	0	2.34	4.98	0.87	17	7	7
1919.....	41.1	79	6	3.57	6.99	1.29	15	7	9
1920.....	38.7	80	-11	2.83	9.70	1.06	16	7	8
1921.....	48.0	88	7	3.33	6.15	1.05	12	9	10
1922.....	40.0	81	-5	4.37	6.65	2.30	11	6	14
1923.....	37.0	80	-8	2.49	5.21	0.70	13	8	10
1924.....	36.1	78	3	2.83	8.97	0.59	12	9	10
1925.....	40.9	79	-15	2.56	4.13	1.47	14	6	11
1926.....	33.1	79	-16	1.91	3.94	0.58	14	8	9

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	4.6	7.8	26	3.0	18	18
Phillipsburg.....	Delaware.....	5.4	8.0	24	3.0	17	22
Mauch Chunk.....	Lehigh.....	4.7	5.9	26	3.9	18	12
Wilkes-Barre.....	Susquehanna.....	9.3	19.4	26	4.9	18	20
Williamsport.....	Susquehanna.....	6.0	11.4	26	2.9	18	20
Harrisburg.....	Susquehanna.....	7.6	11.3	27	4.7	20	17
Freeport.....	Allegheny.....	8.9	18.7	24	4.1	19	22
West Newton.....	Youghiogheny.....	3.4	5.7	24	1.5	17	20
Lock No. 4.....	Monongahela.....	16.5	20.2	9	14.3	19	31
Pittsburgh.....	Ohio.....	15.0	21.9	25	11.6	19	25
Beaver Dam.....	Ohio.....	12.9	22.7	25	7.9	19	30

Climatological Data for March, 1926

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation of 1/16 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	14	33.6	.....	69	25	12	5†	33	1.81	-2.17	0.57	0.4	8	19	9	3	nw.	John A. Frick.
Altoona	Blair	1,615	39	31.2	-6.1	61	19	2	5	37	2.59	-0.11	0.50	11.0	13	15	6	10	w.	Lewis E. Biller.
Bethlehem	Northampton	295	42	35.7	-3.9	67	25	11	5†	32	1.72	-1.92	0.80	T.	7	19	6	6	nw.	Lehigh University.
Biglerville	Adams	652	4	35.5	.....	69	25	11 ^a	5	34 ^a	2.00	.....	1.00	0.2	4	15	6	10	.....	R. C. Walton.
Bustleton	Philadelphia	125	7	37.0	.....	70	25	9	6	32	1.98	.....	1.35	.....	5	13	9	9	w.	Experiment Station.
Canton	Bradford	1,300	.....	28.6	.....	54	25	-2	6	33	1.10	.....	0.24	3.7	10	11	3	12	nw.	Marble Laboratory, In
Carlisle	Cumberland	467	59	37.7	+0.2	72	25	9	6	46	1.67	-1.87	0.68	3.0	5	21	5	5	nw.	Prof. C. E. Miller.
Catawissa	Columbia	520	29	33.8	-3.8	67	25	10	4†	43	1.62	-1.43	0.60	T.	6	20	2	9	.....	H. H. Vetter.
Center Hall	Center	1,272	30	33.7	-2.1	68	19†	2	5	40	3.36	+0.11	1.25	11.0	11	19	3	9	.....	S. W. Smith.
Chambersburg	Franklin	580	26	36.2	-2.2	68	25	11	5†	35	1.78	-1.22	0.55	T.	7	10	9	12	w.	William B. Spear.
Clearfield	Clearfield	1,120	16	33.6	-3.9	67	19†	0	5	45	2.79	-0.78	0.80	7.0	9	18	8	5	w.	E. W. Hess.
Coatesville	Chester	380	38	34.3	-5.1	69	25	6	6	38	1.95	-2.41	0.84	0.5	7	14	12	5	nw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	16	34.1	.....	68	25	6	6	35	1.73	-2.07	0.88	3.0	7	15	4	12	w.	Wm. A. Rorer.
Emporium	Cameron	1,050	38	30.2	-4.8	58	25	-3	6	42	2.02	-1.70	0.60	2.2	7	13	8	10	w.	T. B. Lloyd.
Ephrata	Lancaster	380	25	36.2	-2.8	69	25	11	6	35	1.68	-1.84	0.79	T.	8	15	4	12	nw.	Ira J. Keath.
Freeland	Luzerne	1,970	11	25.4	.....	54	25	-2	5†	30	3.34	.....	0.90	13.9	16	11	8	12	nw.	Theo. Reichmann.
George School	Bucks	190	19	36.2	-3.0	68	25	9	6	36	2.22	-1.24	0.79	2.6	6	16	7	8	w.	Prof. N. W. Swayne
Gettysburg	Adams	600	52	37.7	-1.5	71	25	11	6	38	1.84	-1.32	0.80	0.9	7	11	14	6	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	22	31.6	-4.3	64	25	2	6	40	1.93	-2.39	0.52	4.0	7	20	3	8	nw	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	2	24.4	.....	54	25	-10	6	39	2.60	-0.66	0.80	11.5	9	16	8	7	w.	Gustav Holtz.
Hamburg	Berks	585	33	34.0	-4.4	67	25	6	6	34	1.58	-2.56	0.71	.....	5	15	12	4	w.	State Sanatorium.
Hanover	York	600	22	37.6	-4.0	68	25	12	5	34	1.63	-1.52	0.66	.....	8	18	7	6	w.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	56	35.8	-3.1	68	25	11	5	30	1.91	-1.21	1.04	0.8	8	11	6	14	nw	U. S. Weather Bureau.
Hawley	Wayne	900	7	29.0	.....	60	25	-6	6	42	0.76	.....	0.29	.....	9	15	10	6	w.	J. S. Pennell.
Holtwood	Lancaster	200	11	35.8	.....	68	25	14	6	30	1.55	.....	0.50	T.	9	15	3	13	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	38	34.8	-3.5	65	29	4	6	40	1.92	-1.64	0.45	1.5	11	9	13	9	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	.....	36.3	.....	79	19	6	6	52	1.67	.....	0.53	5.5	10	10	6	15	.....	John S. Madore.
Lancaster	Lancaster	255	38	34.4	-3.6	70	25	9	6	40	1.54	-1.91	0.82	.....	5	21	7	3	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	28	29.5	-4.5	58	22	-3	13	37	0.58	-1.93	0.28	1.0	5	12	7	12	.....	C. P. Darling.
Lebanon	Lebanon	469	85	34.2	-4.4	70	25	11	6	35	1.58	-2.26	0.63	0.5	9	16	8	7	w.	S. B. Benzing.
Lewisburg	Union	450	51	34.2	-1.1	67	25	7	6	37	1.85	-1.67	0.62	2.0	5	16	7	8	w.	Prof. W. G. Owens.
Lykens	Dauphin	680	11	33.2	.....	67	25	1	6	40	1.83	.....	0.62	3.0	8	19	7	5	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	35	33.4	-3.4	65	25	5	6	40	2.20	-2.30	0.82	0.8	9	14	9	8	w.	R. K. Wintermute.
Mifflintown	Juniata	445	22	33.9	-4.1	64	25	7	6	37	2.21	-0.95	0.75	4.0	7	12	7	12	nw.	Wellington Smith.
Montrose	Susquehanna	1,720	23	25.6	-5.5	56	25	-8	6	38	2.09	-0.62	0.64	9.0	9	13	9	9	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	23	26.7	-5.3	58	25	2	5†	29	2.38	-1.38	1.30	6.0	7	17	6	8	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	14	28.9	.....	62	25	-3	6	36	1.75	-0.64	0.46	3.0	8	17	6	8	w.	A. H. Boatman.
Narberth	Montgomery	300	7	36.3	.....	71	25	9	6	34	2.83	.....	1.07	1.4	7	14	7	10	nw.	Charles Decker.
Neshaminy Falls††	Bucks	60	37	33.8	.....	70	25	5	6	40	2.47	.....	0.73	T.	10	22	2	7	w.	North Springfield Water Co
Palmerton	Carbon	398	9	32.0	.....	67	25	6	6	37	1.39	.....	0.90	T.	7	18	6	7	sw.	F. G. Breyer.
Philadelphia	Philadelphia	114	55	39.0	-1.8	71	25	16	5	25	1.96	-1.49	1.09	0.1	8	13	12	6	nw.	U. S. Weather Bureau.
Phila. Navy Yard	Philadelphia	12	10	37.4	.....	70	25	16	5†	29	2.01	.....	1.13	T.	9	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	1	38.2	.....	71	25	17	5†	28	2.41	.....	1.26	.....	7	11	13	7	sw.	Atlantic Refining Co
Philadelphia-Gtn	Philadelphia	113	1	38.9	.....	71	25	16	6	26	2.25	.....	1.36	0.3	6	14	10	7	.....	Julius Bernstein.
Phoenixville	Chester	100	15	35.8	.....	68	25†	8	6	37	2.06	.....	0.87	.....	7	25	3	3	w.	North Springfield Water Co
Quakertown	Bucks	496	41	33.8	-2.5	62	25	5	6	33	2.23	-1.48	1.09	1.6	6	17	8	6	nw.	John E. Benner.
Reading	Berks	325	56	36.6	-3.4	70	25	14	5	30	1.80	-1.74	1.02	1.0	7	15	9	7	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	31	31.4	-4.3	62	25	4	6	32	1.93	-1.19	0.98	4.1	12	4	11	16	nw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	36	34.2	-4.0	66	25	8	5	39	2.10	-1.67	0.68	T.	8	12	12	7	w.	Dr. George E. Fisher.
Shawmont††	Philadelphia	51	30	37.2	.....	67	25†	13	6	33	2.14	-1.53	1.17	.....	6	14	3	14	nw	W. S. Guiles.
State College	Center	1,217	41	32.8	-2.5	62	19	3	5	33	1.84	-1.44	0.47	6.2	12	5	17	9	w.	C. A. Kern.
Towanda	Bradford	754	31	29.5	-4.9	59	25	0	6	34	1.43	-1.32	0.32	2.5	10	12	4	15	nw.	Hiram E. Bull, C. E.
Wellsville	Tioga	1,419	60	26.4	-6.3	54	22	-5	6	40	0.86	-2.39	0.29	4.0	8	21	3	7	w.	George W. Hill.
West Chester	Chester	455	88	35.6	-2.7	69	25	10	6	32	1.82	-2.25	0.80	0.7	7	13	14	4	nw.	Arthur M. Hay.
Williamsport	Lycoming	521	39	33.4	-3.2	64	25	6	6	30	1.41	-1.94	0.36	T.	9	21	2	8	nw.	George A. Beck.
York	York	400	38	37.2	-2.2	70	25	13	5	41	1.34	-1.96	0.56	T.	6	19	5	7	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam††	Beaver	700	33	35.2	.....	67	19	5	5	39	1.13	-2.37	0.27	.....	11	11	8	12	sw.	U. S. Engineer.
Bradford	McKean	1,427	11	29.1	.....	62 ^b	19†	-7 ^b	6	50	2.60	.....	0.90	7.7	16	9	9	13	w.	City Engineer.
Brookville	Jefferson	1,173	35	28.2	-4.7	63	22	-7	5	49	.....	.....	.....	.....	14	12	5	.....	.....	John Fawcett.
Claysville	Washington	1,150	22	34.9	-5.7	70	19	1	5	41	1.92	-1.40	0.38	4.3	14	15	4	12	s.	J. L. Melvin.
Corry	Erie	1,430	14	27.6	.....	59	22	-8	5	48	2.47	.....	0.91	16.1	17	11	8	12	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	29	34.5	-5.6	68	19†	-2	5	42	2.33	-1.73	0.58	0.5	13	11	9	.....	.....	Wm. A. Huff, Jr.
Ebensburg	Cambria	2,000	8	30.2	.....	59	22	-2	5	30	.....	.....	.....	.....	12	11	8	.....	.....	D. H. Jones.
Elk Lick	Somerset																			

Continued on page 14

Daily Precipitation for March, 1926—Continued from page 13

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio			T.				.23	.05			.04				.04			.11		.14	.08		.27	.18	.02						.02	1.18	
Beaver Falls|||	Beaver		T.	.04	.01			.21	.07	.03		.04	T.	T.	T.	.02	T.	.01	.05		.06	.06		.25	.06	.05	T.	T.	T.				.02	0.96
Bradford	Allegheny		T.	.03	.15	.02		*	.35	.05	.01		T.			T.	.08		T.		.52			.90	.09	.22		.01	.02	.01		.14	2.60	
Brookville	do.																																	
Clarion	do.																																	
Claysville	Ohio		.01	.03				.29	.04	T.		.12				.02	T.	.01	.13		.38			.36	.01	T.	.17	.03				.32	1.92	
Cloet||	Allegheny		.06	.09				.38	T.												.21		T.	.60		.08	.28					.40	2.10	
Clymer||	Conemaugh			.04	*	*		.48	.05			.05				.05	.06		.07		.28			.58	.16	.14	.24					.38	2.58	
Colegrove|||	Allegheny																																	
Confluence|||	Youghiogheny			.45	.09	.03		.39	.22	.10		.12							.34	.08	.03	.09		.16	.28		.45	.20	.15			.02	3.18	
Coraopolis|||	Ohio			T.	.05	.01	T.	T.	.27	.05	.03		.04	T.	T.	T.	.02	.04	T.	.07		.13	.14		.22	.15	.03	.09	.03	T.		.02	1.39	
Corry	Allegheny		T.	.07	.22	.01	.01	.39	.18	.02			.01	.01		.05	.07				T.	.26			.91	.02	.10		T.	.03		.11	2.47	
Coudersport	do.																															\$		
Creekside	Allegheny			T.				.38	T.							T.	T.		T.					.55		.06						.60	1.59	
Derry	Conemaugh			.11	.06			.28	.06	.03		.10		T.	T.	.04	T.		.11	T.	.30			.58	T.	.05	.28				.33	2.33		
Ebensburg	Conemaugh																																	
Elk Lick	Youghiogheny			.70	.20	.10		.20	.02	.03		.15				.10	.10		.10					.52		.06	.20					.24	2.48	
Falls Creek	Allegheny				.08			.62	.16								.04				.19			.67		.08	.20	.01				.21	2.26	
Franklin|||	Allegheny		T.	.04	.05	T.		.33	.11	.08			T.		T.	T.	.09	T.			.17	.03		.33	.60	.06					.07	1.96		
Freeport|||	Allegheny			.10	.08	.03		.52								.05	.07	.04	.06	.02	.12	.10		.30	.20	.04	.13		.05				1.91	
Greensburg	Youghiogheny			.04	.08	T.	T.	.36	.06	T.		.03	.02		T.	.02	.02	.01	.05	.02	.33			.37		T.	.30	T.			.32	2.03		
Greenville	Beaver			.02	.01			.06	.40				T.	T.			.01				.14			.62	.20	.02		T.			.20	1.68		
Grove City	Beaver			.06	.18			.25	.30	.50		.05				.20	.25	T.		T.	.25		T.	.30	.12	.02					.13	2.61		
Herr's Isl. Dam|||	Ohio			.01	.01	T.		.26	.06	.02		.04		T.	T.	.02	.02	T.	.09	T.	.08	.20		.21	.10	.04	.09	.03	T.			1.28		
Indiana	Conemaugh			.08	.10			.50	.10			T.				.02	.20		.06		.24			.45		.08	.25				.20	2.28		
Ingram	Ohio			.01	.05	T.		.29	.03	T.		.06	.01		T.	.01	T.	T.	.10		.30			.34		.03	.22	T.				.43	1.88	
Irwin	Youghiogheny			T.	T.			.34	.10			.03	T.			.04	T.	T.	.07	T.	.27			.14		.21						.18	1.34	
Johnstown	Conemaugh			.08	.15	.13	.08	.05	.52	.31	.26	.01	.05	.04	.08	.04	.08	.04		.23		.39			.58		.11	.40	.07		T.	.29	3.94	
Ketner||	Allegheny			.03	.08			.50	.03								.08				.32			.52	.02	.12	.08					.14	1.92	
Kregar|||	Youghiogheny			.30	.08	.10		.20	.21	.19		.08	.03	.01		.01	.03	.02		.08	.04	.35		.11	.23	.01	.27	.21	.03		.03	2.62		
Linesville||	Beaver			.02	.07			.25	.05	.02					.02	*	.08	.01			.21			.28	.42	.08						.02	1.53	
Lock No. 4|||	Monongahela			.01	.02	.01	T.	.22	.06			.03	.01	T.		.01	.01	.02	.12	.03	.48	.30		.28	.05	T.	.20	.11	.01			.7	1.57	
Lycippus	Conemaugh			*	.11	T.		.21	.05	T.		.06				.02	T.		*	*	.47			.35			.41					.33	2.01	
Martin	Monongahela			.28	.08	.01	T.	.27	.10	.04		.08	.03	.01		T.	T.		.20	.05	.04	.16		.28	.06	.02	.23	.20	.08				2.17	
Mount Lebanon	Ohio			.01	.02		T.	.35	.03			.05	T.			T.	T.	T.	.04		.32			.37	.02	.03	.21					.33	1.78	
New Castle|||	Beaver			.01				.03	.15	T.			T.			.25	.25	.05		.25	.01		.37	.06	.01				T.	.02		.25	1.71	
Newell	Monongahela			.05	.02	T.	T.		.21	.01	.02	.01	.03	.02	.01	T.	.01	.02	T.	.07		.35		.01	.17	.01		.24	.02	T.		.35	1.63	
Parkers Landing|||	Allegheny			.10	.10	.15		.30	.30	.20		T.	T.	T.	T.	.05	.15	.10	T.		.10	.15		.30	.40	.10	T.	T.	.05	T.		T.	2.55	
Pennline|||	Beaver			T.		\$	T.	.30	.04	.02		T.	T.	T.	.01	.02	.05				.26			.23	.40							.05	\$	
Pittsburgh***	Ohio			.03	.05	T.		.06	.25	.04	.01		T.	T.		T.	.01	.03	T.	.10		.24		T.	.30		.03	.20	T.			.35	1.70	
Ridgway†	Allegheny							.37													.16			.42		.09	.14					.29	1.47	
Saltsburg|||	Conemaugh			.06	.04	.05		.32	.07	.10		.03		T.		T.	.04	T.	.03		.08	.18		.12	.09	.05	.08	.15			.02	.25	1.76	
Saegertown|||	Allegheny				.20	.05			.30	.10	.10						.10	.05			.25	.10		.38	.65	.08						.23	2.36	
Sharon|||	Beaver			T.	.04			.25	.02				T.				.02				.10	.10		.50	.16				T.			T.	1.09	
Somerseset	Youghiogheny																																	
Springdale|||	Allegheny				.06			.28	.08	.05		.04		.01		.04	.06		.08	.02	.09	.19		.24	.16	.04	.14	.12	.01			.05	1.76	
Uniontown	Monongahela			.10	.07	.03	T.		.17	.08		.05	T.			.02	T.	T.	.15		.23			.40	.03	.02	.45	.12				.17	2.09	
Unity Reservoir||	Youghiogheny			.15	.12	.10	T.		.25	.12	T.		*			*			*	*	.50			.38		.38						.33	2.33	
Vandergrift	Conemaugh			.12		.11		.45	.25							.15	.11	.12			.25			.42		.25						.45	2.68	
Warren	Allegheny			.04	.02	.08	.05		.22	.06		.02		.02			.04	.10			.44			.20		.54		.08				.20	2.11	
Washington	Ohio			T.	.01	.01	T.		.04	.25	.01	T.		.09	T.		T.	.02		.13	T.	.37		.11	.23		.02	.20	.04			.37	1.90	
Waynesburg|||	Monongahela																																	
Westford|||	Beaver		T.	T.	T.	.02	T.	.27	.03	.03							.03				.20			.35					T.				.09	
West Newton|||	Youghiogheny				.20	.10		.05	.07			.06					.02	.06			.08			.19	.07		.18	.09					1.17	
Zelienople|||	Ohio		T.	T.	T.			.32	.05	T.						.01	T.		T.		.40	.05		.32	.06		T.		.02			.05	1.28	
Lake Drainage.																																		
Erie***	Lake Erie		.01	.10	.17	.04		.36	.11	T.	T.	T.	.03			.01	.07	T.		.01	.46		T.	.23	.03	.18		T.	.03	.02	T.	.18	2.04	
West Bingham	Genesee			.05	T.	.05		.10	T.		.10		.05			T.	.20				.15			.25		.10	.05					.30	1.40	

Except as otherwise indicated, observations are generally

Daily Temperatures for March, 1926

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Allentown.....	Maximum 51	39	28	31	21	39	40	33	39	42	38	34	32	33	39	38	38	43	53	57	53	61	52	59	69	60	48	40	34	56	39	43.2
Altoona.....	Maximum 55	45	21	22	40	40	37	30	38	36	33	26	31	30	28	36	45	61	62	51	57	51	56	59	41	37	34	50	55	50	40.9	
Beaver Dam.....	Maximum 54	45	24	24	23	48	48	35	34	46	42	38	26	34	34	43	40	53	67	64	55	62	59	62	61	48	47	40	52	59	45.6	
Bradford.....	Maximum 40	39	22	20	20	43	43	29	33	33	28	22	29	30	28	39	48	54	52	62	62	58	51	49	40	31	45	51	47	39.6 ^b	38.6 ^b	
Brookville.....	Maximum 50	32	23	23	24	44	43	25	32	38	39	25	25	32	32	31	36	51	60	45	55	63	50	57	52	43	34	35	50	57	40.4	
Carlisle.....	Maximum 59	47	32	35	38	44	42	39	42	53	48	42	43	42	42	40	52	54	62	56	66	68	55	67	72	60	50	47	59	65	50	50.9
Catawissa.....	Maximum 60	30	28	32	30	40	44	40	34	44	32	30	36	39	37	41	49	56	45	55	64	48	60	67	40	47	39	53	50	49	43.8	
Chambersburg.....	Maximum 55	46	27	30	30	40	40	39	36	46	39	36	33	36	39	38	43	51	61	58	55	60	55	63	68	61	44	41	55	58	54	46.3
Claysville.....	Maximum 54	46	24	23	28	51	47	30	37	48	41	38	29	34	34	32	42	53	70	67	56	65	62	65	65	47	44	40	55	53	46.3	
Clearfield.....	Maximum 58	47	33	24	31	46	42	37	37	42	46	39	32	36	38	31	33	42	51	50	67	62	58	60	58	45	41	45	48	48	46.4	
Coatesville.....	Maximum 51	47	29	31	27	38	45	43	38	43	34	36	33	34	38	39	41	52	54	60	53	60	55	60	69	50	48	40	53	59	47	45.4
Corry.....	Maximum 41	36	17	20	20	42	41	27	29	34	30	24	20	29	32	29	34	49	57	51	52	59	51	50	49	44	35	31	46	51	45	37.8
Emporium.....	Maximum 58	47	23	25	22	39	42	32	33	36	35	26	25	6	17	18	1	29	21	24	30	23	31	31	33	25	20	17	20	34	35	17.5
Erie.....	Maximum 41	31	18	20	15	44	41	24	30	31	26	21	20	28	33	29	37	46	61	56	44	59	50	53	54	38	31	31	46	38	48	37.0
Franklin.....	Maximum 50	30	22	23	23	45	43	25	33	39	36	22	23	33	34	29	38	50	63	47	62	58	42	59	50	47	36	35	48	59	49	40.2
Freeland.....	Maximum 42	34	21	24	16	30	40	35	28	34	35	30	19	24	34	26	29	40	44	48	40	50	40	44	54	35	40	33	37	46	40	35.2
Gettysburg.....	Maximum 56	51	28	35	31	44	43	40	41	50	44	40	34	40	42	42	46	56	61	61	57	63	58	66	71	64	50	44	57	62	55	49.4
Greensburg.....	Maximum 56	43	21	22	24	49	47	32	31	41	40	37	27	32	33	31	39	51	68	57	56	68	55	61	60	44	38	37	53	60	56	44.1
Grove City.....	Maximum 44	46	20	24	30	45	43	37	38	41	46	38	27	32	35	30	36	51	61	58	55	54	58	56	47	42	35	48	51	50	43.1	
Hamburg.....	Maximum 58	49	12	5	1	6	30	13	16	24	21	16	6	12	20	21	12	31	29	37	21	28	34	35	36	35	24	23	29	38	22.1	
Harrisburg.....	Maximum 54	40	28	30	28	39	40	34	37	42	38	32	30	36	36	36	40	51	58	52	54	59	51	60	68	42	44	39	53	58	46	43.7
Hawley.....	Maximum 50	45	29	24	22	36	42	29	36	32	32	27	26	36	31	32	41	48	50	48	59	55	47	60	50	39	37	45	52	48	40.3	
Huntingdon.....	Maximum 60	58	28	27	28	42	40	42	36	43	41	40	32	35	36	35	40	50	60	57	61	58	60	64	51	42	39	54	59	57	46.5	
Indiana.....	Maximum 52	45	22	20	20	42	45	39	36	38	36	24	16	30	31	35	46	62	62	50	61	56	56	56	41	40	46	25	34	23.0		
Johnstown.....	Maximum 57	38	23	23	24	44	45	31	32	40	40	32	29	33	33	31	33	48	65	50	60	66	51	61	61	39	34	38	54	61	48	42.7
Lancaster.....	Maximum 51	50	30	29	36	42	40	38	46	35	34	31	15	35	37	35	40	51	54	53	56	49	61	70	69	43	42	51	53	50	45.1	
Lawrenceville.....	Maximum 52	45	25	26	21	37	42	32	38	37	31	29	25	33	35	35	42	53	48	48	58	52	50	55	41	37	32	47	46	45	39.6	
Lebanon.....	Maximum 53	24	15	10	4	0	30	20	10	12	11	12	-3	6	18	16	9	26	23	32	22	22	35	36	33	31	23	19	10	28	33	19.3
Lycippus.....	Maximum 55	35	26	20	28	39	39	31	39	42	38	34	32	36	38	37	40	50	56	59	57	61	52	61	70	41	47	39	53	58	39	43.6
Lykens.....	Maximum 57	53	29	30	28	40	43	41	49	43	42	36	31	37	35	41	48	56	54	54	52	57	61	67	62	44	42	58	61	55	46.4	
Mauch Chunk.....	Maximum 50	48	30	30	26	38	39	40	37	40	36	34	29	32	48	38	48	49	52	50	54	61	55	55	65	50	45	39	51	61	53	44.3
Mifflintown.....	Maximum 53	44	25	27	27	39	39	39	37	40	38	33	32	36	37	36	40	52	59	54	55	59	53	59	64	47	44	38	51	56	55	44.1
Montrose.....	Maximum 47	45	34	24	17	30	39	39	30	35	32	29	24	28	32	34	33	40	42	43	45	49	47	43	56	38	40	34	40	36	37.0	
Mount Pocono.....	Maximum 41	35	28	20	16	24	37	29	28	31	30	29	31	33	30	30	33	36	33	38	40	47	45	54	58	40	36	35	38	41	35	34.9
Muncy Valley.....	Maximum 47	38	24	28	28	33	37	36	34	37	35	27	25	31	32	32	33	37	42	49	46	49	53	48	54	62	42	55	47	52	48	39.5
Philadelphia.....	Maximum 54	47	33	35	31	39	51	39	42	45	37	40	35	37	42	41	42	54	55	60	63	60	57	62	71	46	50	42	52	59	45	47.0
Pittsburgh.....	Maximum 54	34	23	22	24	49	47	24	34	44	39	25	25	31	33	30	38	51	67	57	53	64	63	61	59	44	34	37	49	58	51	42.7
Quakertown.....	Maximum 50	46	29	30	26	37	42	42	37	42	37	35	33	33	39	38	38	51	51	58	53	60	54	57	62	60	47	42	49	57	53	44.8
Reading.....	Maximum 53	46	28	31	28	39	43	36	39	43	38	35	32	36	37	38	40	51	56	60	56	61	52	60	70	43	46	39	50	57	43	44.7
Saegertown.....	Maximum 43	36	20	27	24	44	41	31	34	39	32	22	21	32	36	30	36	48	62	54	54	59	52	57	53	44	37	35	47	52	50	40.4
Scranton.....	Maximum 52	45	25	28	19	36	44	35	32	35	32	29	24	31	35	35	34	43	52	48	47	58	46	54	62	38	41	35	46	51	40	39.7
Selinsgrove.....	Maximum 54	45	26	29	28	37	38	39	39	44	38	38	34	36	35	37	40	51	55	55	55	58	50	60	66	55	45	47	52	56	52	45.0
Somerset.....	Maximum 22	25	17	11	8	9	28	19	19	22	25	18	14	11	25	24	19	26	32	36	26	19	40	38	31	32	22	23	20	29	34	23.5
State College.....	Maximum 57	45	25	23	27	39	42	37	32	40	38	31	28	34	35	35	39	48	62	52	51	59	52	59	60	45	38	34	52	58	53	42.4
Towanda.....	Maximum 52	43	26	24	19	34	42	34	32	34	29	27	24	30	32	35	33	41	50	43	45	55	46	51	59	40	39	34	46	47	40	38.3
Uniontown.....	Maximum 58	42	25	26	25	51	49	34	34	46	39	36	29	35	33	33	40	50	68	56	54	69	59	63	62	43	37	40	55	60	53	45.3
Warren.....	Maximum 45	38	24	20	23	43	42	32	32	35	34	22	24	35	30	32	44	48	50	55	60	48	50	50	46	32	34	44	50	45	38.6	
Wellsboro.....	Maximum 38	24	12	10	-6	-2	29	14	13	18	17	18	1	7	17	20	4	30	28	22	25	26	35	34	35	30	25	20	19	36	38	20.5
West Bingham.....	Maximum 46	41	22	24	20	35	39	28	31	35	29	27	22	31	32	32	35	43	50	43	46	54	44	51	53	37	36	31	47	42	47	37.3
Williamsport.....	Maximum 26	19	10	10	-1	-5	15	12	7	10	6	0	3	15	12	5	24	12	31	19	19	33	33	30	28	20	17					

12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXI.

APRIL, 1926.

No. 4

GENERAL SUMMARY.

This was the coldest April since that of 1907. The coldest period during the month was from the 12th to the 16th inclusive, when minimum temperatures of 20° or lower were recorded at a majority of stations, and in fact quite generally except in a few southeastern counties. The rainfall was less than two-thirds of the April normal, it being the driest April since that of 1915. Considerable snow fell in the mountain districts, and heavy snow in the northwestern counties. Severe thunder squalls occurred in the southeastern part of the State on the 26th, and did considerable damage at some places in Lancaster County. Heavy hail occurred in many localities during the squalls. Vegetation started slowly and fruit buds remained dormant until near the end of the month. As a result there was little or no damage by frost. Oats seeding and plowing for corn were in full swing at the end of the month with the seeding well advanced in the southeastern portion of the State. The ground had dried out by the end of the month to such an extent that heavy soils were hard to plow, and farmers in many parts of the State were complaining of a drought. Winter wheat was generally fair to good at the close of the month, and was improving. Small patches in the fields that were supposed to be winter killed were filling up and the grain was getting into better condition than was believed possible earlier in the season. Pastures and meadows grew very slowly, and there was little grass for stock. Peaches, pears, plums, and cherries came into bloom in the southern counties near the close of the month, and in most sections the trees seemed to bloom extra full. The streams were at moderate or low stages, but the water supply was ample for all needs.

TEMPERATURE.

The mean temperature for the State, as determined by the means of 84 stations was 44.9°, or a deficiency of 3.9° as compared with the April normal. The highest mean was 50.4°, at the Philadelphia Weather Bureau and Philadelphia-Germantown, and the lowest was 37.2°, at West Bingham. The highest temperature recorded during the month was 84°, at Carlisle, Neshaminy Falls and Philadelphia-Germantown, on the 22d, while the lowest for the month, 9°, was recorded at West Bingham on the 12th and 15th. The greatest daily range was 53°, at West Bingham on the 15th.

PRECIPITATION.

The average precipitation, from rain and melted snow, as shown by reports from 133 stations, was 2.03 inches, or 1.34 inches less than the State normal for April. The greatest monthly total was 4.35 inches at Saegerstown, and the least was 0.85 inch, at Brookville. The greatest amount recorded in any 24 consecutive hours was 1.32 inches, at Pleasant Mount, on 7-8th. Snowfall for the State averaged 0.9 inch, which was about one-third the normal amount for the month. The greatest monthly snowfall was 14.2 inches at Corry, at which station 7.5 inches fell on the 1st.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total move- ment, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	*Highest	Direction	Date
Erie.....	180.7	401.1	45	74	72	11,741	16.3	56	sw.	3
Harrisburg.....	248.4	398.6	62	55	48	6,766	9.4	34	sw.	25
Philadelphia.....	251.7	398.6	63	60	60	7,990	11.1	33	nw.	24
Pittsburgh.....	178.8	399.9	45	69	57	10,128	14.1	52	w.	25
Reading.....	164.5	398.6	41	69	66	6,474	9.0	29	w.	25
Scranton.....	223.4	399.9	56	62	52	6,829	9.5	35	sw.	25

* For any five-minute period.

COMPARATIVE DATA FOR APRIL

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	47.2	92	12	2.52	4.23	0.99	14	10	6
1889.....	49.7	88	14	4.50	8.15	2.09	11	8	11
1890.....	48.6	85	12	3.46	5.50	1.75	13	9	8
1891.....	49.8	87	11	2.08	3.54	1.12	10	10	10
1892.....	46.9	85	14	2.04	4.43	0.61	7	10	13
1893.....	47.7	85	16	4.74	6.91	2.95	11	8	11
1894.....	48.0	83	5	3.62	10.00	1.69	10	8	12
1895.....	49.2	90	5	3.76	7.09	0.79	10	10	10
1896.....	53.0	97	4	1.75	3.39	0.20	12	9	9
1897.....	49.0	92	12	3.30	4.63	1.20	9	8	13
1898.....	45.6	84	4	2.93	5.34	1.36	15	9	6
1899.....	50.2	92	2	1.76	3.25	0.70	14	8	8
1900.....	49.2	90	13	1.57	2.80	0.60	9	5	16
1901.....	47.2	95	10	5.41	9.18	1.46	8	10	12
1902.....	48.0	91	20	3.56	7.14	1.34	11	7	12
1903.....	48.8	90	12	3.53	4.93	2.16	8	8	14
1904.....	44.7	86	9	3.45	6.42	1.34	9	11	10
1905.....	48.4	84	16	2.84	4.74	1.39	14	8	8
1906.....	50.0	89	12	3.13	6.96	0.75	10	7	13
1907.....	43.6	84	8	2.64	4.42	1.02	12	8	10
1908.....	49.8	89	0	3.51	6.31	1.85	10	9	11
1909.....	48.5	87	8	5.39	8.42	2.67	10	9	11
1910.....	52.6	89	18	5.07	8.50	2.21	10	7	12
1911.....	46.2	84	6	3.79	5.85	1.66	10	7	13
1912.....	50.2	83	18	4.39	7.31	2.41	12	6	12
1913.....	50.6	90	17	3.82	9.28	1.46	10	8	12
1914.....	47.3	93	5	4.66	7.50	1.90	13	10	7
1915.....	53.9	98	15	1.92	4.41	0.46	9	9	12
1916.....	48.0	87	16	3.65	7.40	1.65	11	10	9
1917.....	48.5	87	14	2.08	4.89	0.41	10	9	11
1918.....	43.2	81	12	4.53	2.41	0.30	10	10	10
1919.....	48.5	90	6	2.70	4.76	0.90	9	9	12
1920.....	46.0	87	8	4.39	11.34	2.44	13	7	10
1921.....	55.3	96	10	3.11	5.06	1.12	12	9	9
1922.....	50.1	91	11	3.17	6.10	1.23	14	8	8
1923.....	48.3	89	5	2.94	5.89	1.00	13	7	10
1924.....	46.5	82	6	4.15	7.52	1.77	15	7	8
1925.....	51.3	96	9	2.32	4.89	0.93	12	9	9
1926.....	44.9	84	9	2.03	4.35	0.85			

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date		Lowest stage	Date		Flood stage
Port Jervis.....	Delaware.....	5.6	9.4	10	4.0	22	18		
Phillipsburg.....	Delaware.....	5.9	11.5	10	4.0	6	22		
Mauch Chunk.....	Lehigh.....	4.4	5.6	9	3.9	20	12		
Wilkes-Barre.....	Susquehanna.....	10.9	18.9	10	7.1	23	20		
Williamsport.....	Susquehanna.....	4.8	9.9	10	2.6	24	20		
Harrisburg.....	Susquehanna.....	6.5	10.4	11	4.9	24	17		
Freeport.....	Allegheny.....	8.4	15.9	10	4.7	24	22		
West Newton.....	Youghiogheny.....	2.2	5.7	10	0.8	29	20		
Lock No. 4.....	Monongahela.....	15.8	20.0	8	14.0	22	31		
Pittsburgh.....	Ohio.....	14.3	20.2	10	11.8	23	25		
Beaver Dam.....	Ohio.....	11.9	21.5	10	7.6	27	30		

Climatological Data for April, 1926

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy			Cloudy	
Atlantic Drainage.																					
Allentown.....	Lehigh.....	254	14	46.6	.....	79	22	25	12†	41	2.26	-1.58	0.69	T.	10	14	13	3	nw.	John A. Frick.
Altoona.....	Blair.....	1,615	39	44.2	-4.0	77	22	18	18	36	1.73	-1.04	0.52	4.0	14	12	13	5	w.	Lewis E. Biller.	
Bethlehem.....	Northampton.....	295	42	47.0	-4.9	77	22	24	12	34	1.84	-1.31	0.60	T.	8	19	5	6	w.	Lehigh University.	
Biglerville.....	Adams.....	652	4	48.2	.....	80	22	24	12†	42	2.16	.....	0.95	T.	7	13	9	8	w.	R. C. Walton.
Bustleton.....	Philadelphia.....	125	7	48.4	.....	83	22	26	12†	36	1.65	.....	0.61	0	6	14	7	9	nw.	Experiment Station.
Canton.....	Bradford.....	1,300	.....	41.8	.....	76	22	16	12	40	1.89	.....	0.63	0.7	13	9	8	13	w.	Marble Laboratory, In
Carlisle.....	Cumberland.....	467	59	50.8	-1.4	84	23	22	20	45	1.51	-1.82	0.70	1.0	7	16	7	7	nw.	Prof. C. E. Miller.	
Catawissa.....	Columbia.....	520	29	45.4	-5.9	79	23	19	12	40	1.91	-1.50	0.81	T.	10	17	6	7	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	30	45.8	-3.1	83	23	19	12†	43	1.52	-1.62	0.78	0.5	5	17	6	7	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	26	48.2	-1.6	80	22†	25	12	42	1.45	-1.39	0.40	0.4	9	13	8	9	sw.	William B. Spear.	
Clearfield.....	Clearfield.....	1,120	16	43.6	-4.7	81	23	13	20	45	1.84	-1.57	0.65	3.0	9	12	10	8	nw.	E. W. Hess.	
Coatesville.....	Chester.....	380	38	46.6	-4.2	80	22	20	16	43	1.89	-1.74	0.92	0	7	8	16	6	sw.	Prof. W. T. Gordon.	
Colebrook.....	Lebanon.....	560	16	45.6	.....	78	22	22	12	39	2.31	-1.89	0.93	T.	10	15	2	13	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	38	41.4	-5.7	77	22	17	12	41	2.46	-0.87	0.66	0.5	10	10	9	11	w.	T. B. Lloyd.	
Ephrata.....	Lancaster.....	380	25	47.6	-2.4	78	22	24	12	38	2.48	-1.07	0.99	T.	7	13	5	12	w.	Ira J. Keath.	
Freeland.....	Luzerne.....	1,970	11	38.4	.....	70	22	10	12	34	3.86	.....	0.90	3.5	15	8	12	10	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	19	47.1	-3.0	82	22	23	16	39	1.53	-2.07	0.53	0	8	16	9	5	w.	Prof. N. W. Swayne	
Gettysburg.....	Adams.....	600	52	50.0	-0.4	83	30	25	12†	44	2.06	-1.54	0.67	1.0	7	9	14	7	w.	Col. E. B. Cope.	
Gordon.....	Schuylkill.....	840	22	43.2	-4.7	75	21	18	16	47	1.74	-2.92	0.52	T.	9	14	6	10	nw.	Capt. J. G. Johnson	
Gouldsboro.....	Wayne.....	1,875	2	38.6	.....	72	22	14	12	36	2.48	-2.22	0.90	0.2	10	14	7	9	w.	Gustav Holtz.
Hamburg.....	Berks.....	535	33	44.2	-6.2	75	21†	22	16	45	2.93	-1.32	1.31	0	5	14	13	3	w.	State Sanatorium.	
Hanover.....	York.....	600	22	49.4	-3.6	78	22	24	20	34	2.33	-0.96	0.86	T.	10	18	7	5	w.	Mrs. Mabel C. Wolcott.	
Harrisburg.....	Dauphin.....	361	56	47.6	-3.3	77	22	26	12	30	1.86	-0.63	0.71	T.	9	9	8	13	nw.	U. S. Weather Bureau.	
Hawley.....	Wayne.....	900	7	41.8	.....	78	22	15	19	46	1.79	.....	0.82	0	10	13	10	7	n.	J. S. Pennell.
Holtwood.....	Lancaster.....	200	11	48.2	.....	79	22	27	12	33	1.70	.....	0.64	0	5	9	3	18	.....	H. W. Lowy, C. E.
Huntingdon.....	Huntingdon.....	650	38	46.8	-2.8	79	22	19	18	42	1.55	-1.82	0.64	T.	8	9	10	11	nw.	Prof. W. J. Swigart.	
Hyndman.....	Bedford.....	977	.....	47.3	.....	82	30	23	16†	46	0.97	.....	0.30	1.1	7	10	6	14	.....	John S. Madore.
Lancaster.....	Lancaster.....	255	35	46.5	-4.3	80	22	22	20	42	2.00	-1.54	0.75	0	7	20	6	4	w.	Supt. of Water Works.	
Lawrenceville.....	Tioga.....	1,000	28	41.8	-4.0	77	22	17	12	44	1.27	-1.87	0.62	T.	3	10	5	15	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	85	46.1	-4.4	77	21†	24	12†	46	2.07	-1.30	0.89	T.	7	13	12	5	w.	S. B. Benzing.	
Lewisburg.....	Union.....	450	51	45.7	-2.5	81	22	22	12	39	1.72	-1.80	0.82	T.	8	9	8	13	w.	Prof. W. G. Owens.	
Lykens.....	Dauphin.....	680	11	45.3	.....	76	21†	15	18	42	1.98	.....	0.91	T.	7	18	8	4	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	35	44.4	-4.4	78	22	20	16	42	2.46	-1.46	0.95	T.	9	12	9	9	w.	R. K. Wintermute.	
Millintown.....	Juniata.....	445	22	46.9	-2.9	78	21	22	12	42	1.48	-2.43	0.56	T.	5	17	6	7	nw.	Wellington Smith.	
Monroeville.....	Susquehanna.....	1,720	23	39.0	-5.1	73	22	12	12	43	2.90	-0.60	1.15	1.0	7	13	11	6	w.	Silas Jagger.	
Mt. Pocono.....	Monroe.....	1,658	23	78	22	16	12†	49	2.36	0.94	T.	7	16	8	6	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	14	41.2	78	22	16	12†	49	2.36	-2.17	0.94	T.	7	16	8	6	A. H. Boatman.
Narberth.....	Montgomery.....	300	7	48.0	.....	83	22	24	20	35	1.48	.....	0.47	T.	7	13	7	10	sw.	Charles Decker.
Neshaminy Falls††	Bucks.....	60	37	45.9	.....	84	22	20	16	46	1.93	.....	0.66	0	12	13	7	10	sw.	North Springfield Water Co
Palmerton.....	Carbon.....	398	9	43.5	.....	80	22	19	16	41	1.72	.....	0.85	T.	5	9	9	12	sw.	F. G. Breyer.
Philadelphia.....	Philadelphia.....	114	55	50.4	-1.7	83	22	29	12	31	1.81	-1.10	0.80	T.	8	8	10	12	nw.	U. S. Weather Bureau.	
Phila. Navy Yard.....	Philadelphia.....	12	10	48.9	.....	82	22	29	12†	32	1.97	.....	0.94	0	6	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze.....	Philadelphia.....	90	1	49.7	.....	83	22	29	12	33	1.65	.....	0.65	T.	7	8	18	4	w.	Atlantic Refining Co
Philadelphia-Gtn.....	Philadelphia.....	113	1	50.4	.....	84	22	28	12†	32	1.73	.....	0.74	T.	7	12	10	8	.....	Julius Bernstein.
Phoenixville.....	Chester.....	100	15	47.6	.....	81	22†	22	18	38	1.72	.....	0.58	0	7	21	8	1	w.	North Springfield Water Co
Quakertown.....	Bucks.....	496	41	45.6	-2.8	80	22	21	16	41	2.27	-0.96	0.64	0	8	14	10	6	w.	John E. Benner.	
Reading.....	Berks.....	325	56	47.8	-2.5	78	22	26	12	32	1.96	-1.26	0.98	T.	9	9	11	10	w.	U. S. Weather Bureau.	
Scranton.....	Lackawanna.....	805	31	43.3	-4.8	77	22	20	12	39	2.20	-0.45	1.03	T.	9	6	6	18	nw.	U. S. Weather Bureau.	
Selinsgrove.....	Snyder.....	455	36	45.6	-4.3	75	21†	22	12	39	2.09	-1.45	0.70	.....	10	9	14	7	sw.	Dr. George E. Fisher.
Shawmont††	Philadelphia.....	51	30	48.9	.....	80	22†	28	12	32	1.08	.....	0.64	0	7	13	8	9	nw.	W. S. Gules.
State College.....	Center.....	1,217	41	44.3	-3.4	76	21†	19	20	35	1.98	-1.30	0.73	T.	10	9	13	8	w.	C. A. Kern.	
Towanda.....	Bradford.....	754	31	41.4	-5.2	78	22	17	12	46	2.02	-0.91	0.67	0.1	13	6	10	14	w.	Hiram E. Bull, C. E.	
Wellsboro.....	Tioga.....	1,419	60	39.5	-5.1	76	22	13	12	45	1.81	-1.77	0.81	1.0	4	17	3	10	w.	George W. Hill.	
West Chester.....	Chester.....	455	88	47.6	-2.1	81	22	23	12	37	1.37	-2.41	0.58	T.	6	15	10	5	w.	Arthur M. Hay.	
Williamsport.....	Lycoming.....	521	39	45.8	-2.8	83	22	22	12	40	2.27	-1.11	0.81	T.	10	16	7	7	nw.	George A. Beck.	
York.....	York.....	400	38	48.6	-2.1	82	22	21	20	41	1.39	-1.64	0.42	T.	7	14	12	4	e.	York Water Co.	
Ohio Drainage.																					
Beaver Dam††	Beaver.....	700	33	46.3	.....	80	30	20	20	42	2.19	-0.93	0.80	T.	13	8	8	14	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	11	41.6†	.....	72†	21	17†	15	42†	3.80	.....	0.78	6.0	18	8	9	13	w.	City Engineer.
Brookville.....	Jefferson.....	1,173	35	40.0†	-5.8	76†	22	11†	20	45†	0.85	-2.01	0.45	T.	3	.....	.....	.....	.....	John Fawcett.
Claysville.....	Washington.....	1,150	22	45.8	-4.8	81	30	16	20	43	1.56	-1.93	0.60	0.8	12	16	5	9	n.	J. L. Melvin.	
Corry.....	Erie.....	1,430	14	39.6	.....	72	21	12	15	41	4.28	.....	0.94	14.2	17	10	7	13	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	29	46.0	-3.3	79	30	19	18	41	1.82	-1.90	0.67	T.	11	16	8	6	w.	Wm. A. Huff, Jr.	
Ebensburg.....	Cambria.....</																				

Daily Precipitation for April, 1926

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown||	Lehigh	.22			.38			.09	.21	.41								.06								.67	.02		.05	.20	.01		2.26	
Altoona	Juniata	.09		.20		.10	.09	.11	.50	.02								.06							.01	.29	.05	.01	.18	.02	T		1.73	
Ansonia||	W. Br. Susq.	.22	.03	T	.28	T	.07	.14	.13	.53								.06	T		T			T	.10	.29	.02	T		.02	T		2.10	
Baker's Summit	Juniata	.05		.13			.36		.72	.03																.33	.02		.14				1.78	
Bethlehem	Lehigh	.04		.01	.28			.06	.60																	.60			.23	.02			1.84	
Biglerville	Susquehanna		.17				.26	.02	.95											T						.69	.04		.03				2.16	
Blosserville||	Lower Susq.		.05				.15		.80																	.60							1.60	
Bustleton	Lower Del.			.01	.45				.18	.39																	.61			.01			1.65	
Canton	N. Br. Susq.	.16		.17		.01		.08	.63								.01	.01			T			.08	.07		.45	.09		.04		.09	1.81	
Carlisle	Lower Susq.		.20			.04	.12	.18	.27																		.55	.15		T		T	1.51	
Catawissa	N. Br. Susq.	T	.21			.02	.15	.40									T								.04		.80	.01		.23	.03	.02	1.91	
Center Hall	Susquehanna		.08					.78	.20																		.14	.32					1.52	
Chambersburg	Potomac		.26			.24	.11	.40	.10						.02												.10	.15		.07			1.45	
Clearfield	W. Br. Susq.	.05		.28		.03	T	.38	.65	.03							T				T		T		T		.18	.06	T	.18			1.84	
Coatesville	Lower Del.			.19			.03		.92																	.09	.48	.13		.05			1.89	
Colebrook	Lower Susq.	T	.20				.02	.05	.93	.03							.01									T	.85	.04		.15		.03	2.31	
Conshohocken	Schuylkill	T	.20		T		T	.46	.30									.30								T	.37			T		.02	1.65	
Cresson||	Juniata	*	.14		.02	*	.28	.30	*	.37						.01	.06				T		.01				*	.30	.02	.28		.02	1.81	
Doylestown	Lower Del.	.03		T	.34			.53	.24								.01										.54			.07		.03	1.79	
Driftwood||	W. Br. Susq.	.15	T	.08	.20		.12	.16	.30	.35						T			.09		T					.03	.38	.04		.10	T	.01	2.01	
Emporium	do.	.05	T	.35		.08	.08	.22	.66							T	T	.13			T					.48	T		.33		T		2.46	
Ephrata	Lower Susq.	T		.11	T		T	.02	.78	.47						T											.99			.10	.01	T		2.48
Forest City	N. Br. Susq.	T	T	.40	.03		.41	.35	.26							T	T								.09	.25		.66	T	.14	T	.02	2.61	
Freeland||	Lehigh	.42	.09	T	.28		.06	.05	.12	.85							.14		.18				T				.90	.20		.08	.30	.03	3.86	
George School	Lower Del.	T		.02	.29			.01	.30	.34					.01				T								.53			.03	T	T	1.53	
Gettysburg	Potomac		.08				.22	.08	.65	.32																	.67			.04			2.06	
Girardville||	Susquehanna	T	.06		T	.10	.18	.10								.06	.06	T		T				T		.76	.09		.25	.03	.19		2.91	
Gordon	Lower Susq.		.29				.05	.44	.12							.04		.02									.52	T	.22			.04	1.74	
Gouldsboro||	Lehigh		.25				.15		.52								.13						.03		.15	.10		.25	.65		.25		2.48	
Graterford	Schuylkill		.33				.79	.42																			.46			T		.01	2.01	
Hamburg	Schuylkill		.42				.07	1.31																				.88			.25		2.93	
Hanover	Lower Susq.		.15		.15	.10	.48	.44			.01															.03		.86		.10			2.33	
Harrisburg***	do.	T	.15		.05	.03	.68	.03								T				T							.66	.04		.10	T	.12	1.86	
Harrisburg East	do.		.16			.10	.66									T											.55			.12			1.59	
Harrisburg North	do.		.17			.08	.28	.31																					.57	.14			1.55	
Hawley||	Upper Del.	.05		.24		.05		.28	.02								T	.03							.09	.03		.82		.18	T		1.79	
Holtwood||	Lower Susq.			.09		.61	.64																				.32			T	.04		1.70	
Huntingdon	Juniata	.02	.15		.23		.64																			.03	.28	.14		.06			1.55	
Hyndman	Potomac	.01	.16		.30	.15	.25				T								T		T						.07	*		.03			0.97	
Lancaster	Lower Susq.		.12			.53	.44																				.75			.09	.02	.05	2.00	
Lansford||	Lehigh	.09		.29		.08	.23	.32								.02		.03										.95		.02	.26	.01	2.30	
Lawrenceville	N. Br. Susq.	T		T		T	.62									T	T							T	T	.10	.55	T	T		T		1.27	
Lebanon	Lower Susq.	T		.12		.05	.24	.57																			.89			.11	T	.09	2.07	
Leolyn||	W. Br. Susq.		.30		T		.15	.28																										
Lewisburg	do.	.01		.30		T		.15	.28																		.82	*		.31		.01	1.72	
Lloyd	do.	.04		.30	.14	T		.68																		.05				.02		.06	1.30	
Lykens	Susquehanna	.02		.30	T	T	.06	.37	.16																			.31		.16			1.98	
Mauch Chunk	Lehigh		.23			.09	.81	.02									T	.03										.85	.10		.28	.05	2.46	
Midlinton	Juniata	T	.20			T	.07	.66																				.50	.15				1.48	
Montrose	N. Br. Susq.	.07	.20	.15			.15										T	.10								.13		.10					2.90	
Morris Run	N. Br. Susq.	.03	.14		.03		.04	.53								.01	T							.03	.12	.03	.65	.14	T		.04	.04	1.83	
Mount Pocono	Upper Del.																																	
Mount Union||	Juniata		.23		.04		.09	.80																										
Muncy Valley	W. Br. Susq.		.23		.04		.09	.80																										
Narberth	Lower Del.	T	.18			T	T	.46	.30							.02			.01									.94		.16		.10	2.36	
Neshaminy||	Lower Del.	.20		.18	.20		.03	.10	.58							.02																		

Daily Precipitation for April, 1926—Continued from page 18

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio	.25	T.	.13	.13			.22	.07	.73						.02		.06						.14		.18	.02		.22	.02			2.19	
Beaver Falls|||	Beaver	.25	T.	.16	.05		.01	.17	.11	.59						.03		.09						.05		.19	.01	T.	.22	.02			1.95	
Bradford	Allegheny	.20	.16	.20	.12	.15		.34	.78	.04						.20	.09	.14		T.	T.	T.		.25	.05	.54	.04	T.	.28		.18		3.80	
Brookville	do	T.		T.		.05	T.	.45	.35														T.				T.	T.					0.85	
Clarion	do																																	
Claysville	Ohio	.01		.17		.02	.06	.06	.60	.06						.02				T.	T.			.05	.23	.03	T.	T.	.25	T.			1.56	
Cloeff	Allegheny			.28		.05	.06	.32	.49								.10								.26	.07			.03	.13			1.79	
Clymer||	Conemaugh	.38		.23		.03	.03	.39	.44							.05	T.			T.				.07	.22	.12	.02		.21				2.19	
Colegrove|||	Allegheny																																1.55	
Confluence|||	Youghiogheny	.37		.05	.13			.50		.20						.05		.03								.10			.12					1.55
Coraopolis|||	Ohio	.35	T.	.09	.09		.01	.24	.03	.61						.02		T.						.03		.18	.02	T.	.18	.03			1.88	
Corry	Allegheny	.49	T.	.71	.10	.21		.30	.94							.20	.01			.01	T.			.06	.10	.31	.25	.05		.52	.01	.01	4.28	
Coudersport	do	T.		T.		.20		.50	.32							.25							.30					.12					1.69	
Creekside	Allegheny			.03		.04	.26		.56							.02	.04								.34				.16				1.45	
Derry	Conemaugh	.03		.31		.10	.16	.10	.67	.03						.03								.04	.17	T.		.18					1.82	
Ebensburg	Conemaugh	.07		.16		.10	T.	.28	.48	.02						T.				T.					.18	.08			T.				1.37	
Elk Lick	Youghiogheny	.10				.26	.20	.90																	.25	.12			.25				2.08	
Falls Creek	Allegheny	.14		.24		.08		.53	.51							T.	.02			.01				.03		.30	.07	.04		.10			2.07	
Franklin|||	Allegheny	.30	T.	.19	.48		.10	.26	.34	.52						.12		.08		T.				.20		.26	.10		.18		.04		3.17	
Freeport|||	Allegheny	.43		.18		.04	.25	.06	.69							T.		.13						.11		.17	.05			.03			2.14	
Greensburg	Youghiogheny	T.		.26		.06	.18	.08	.32	.04						.02		.05		T.				.04	.09	T.	T.	.02	.17				1.83	
Greenville	Beaver	.02		.70		.09		.37	.93							.10		.05					.11		.27	.10	.05		.22	T.			2.96	
Grove City	Beaver	.15		.36	T.	.02	T.	.10	.22							.03	.02						.06	.05	.10	.02		.04	.19				1.36	
Herr's Isl. Dam|||	Ohio	.36	T.	.14	.10		.06	.20	.04	.63						.03		.03			T.			.06	.01		.17	T.	T.	.11	.01		1.89	
Indiana	Conemaugh	.10		.20		.03	T.	.20	.35							.05			.03					.05	.08	.13			.18				1.40	
Ingram	Ohio	.04		.18		.03	.12	.09	.61	.06						.01	.02	.04		T.				T.	.02	.15	.03	.01	T.	.17			1.58	
Irwin	Youghiogheny	T.		.26		.01	.07	.13	.35	.03						.03								.03	T.	T.		.02	.12				1.05	
Johnstown	Conemaugh	.11	.07	.20		.15	.35	.15	.47							.09		.05		.04				.02	.22	.03		.06	.17	T.	.01		2.19	
Ketner||	Allegheny	.12		.20	.04	.14		.30	.50	.04						.04	.07	.04					.13	.04	.40	.04	.05		.14				2.29	
Kregar|||	Youghiogheny	.32	.03	.02	.12		.08	.36	T.	.26						.03				T.				T.		.17	T.	.10	.15	.04			1.68	
Linesville||	Beaver	.31	.01	.09	\$		.11	.36	.73	.35						.08		T.						.14		.47	.06		.40		.03		\$
Lock No. 4|||	Monongahela	.45	T.	.08		.20	.04	.24	.05	.66						.02								.06		.06	.01	.03	.13	.02			2.05	
Lycippus	Conemaugh	.12	T.			T.	.21	.15	.32	.05						.01								T.	.23	T.		.02	.26				1.37	
Martin	Monongahela	.43	.01	.10	.08	T.	T.	.20	.05	.30			.02			.09								.02	.02	.05		.25	.02				1.64	
Mount Lebanon	Ohio	.07		.21		.05	.13	.13	.72	.07						.02		.02						.02	.20	.04		.18					1.86	
New Castle|||	Beaver	T.		.38	.13		T.	.50	.51	.29							T.							.04		.24	.03	T.	.27	.01			2.40	
Newell	Monongahela	.01		.19			.07	.09	.42							.01					T.				.01	.02	.04		.01	.15	.01		1.03	
Parkers Landing|||	Allegheny	.15		.18	.20		.10	.35	.25	.65						T.		T.						.02		.12	T.	.10	.12		T.		2.24	
Pennline|||	Beaver	.10	.02	.45	.32	T.	.14	.33	.70	.25						.12		T.		.01	T.			.23	.20	.18	.09		.60	.03		3.77		
Pittsburgh***	Ohio	.05		.19		.03	.16	.01	.64							T.	.03	.02						.01	.15	.02	T.	.03	.04		.08		1.46	
Ridgway†	Allegheny	.06		.54		.15		.35	.44								.08							.06	.38	.03	.04		.12		.03		2.28	
Saltsburg|||	Conemaugh		.04	.11		.02	.20	.01	.34							.06		.02							T.	.01	.01		.10				0.92	
Saegertown|||	Allegheny	.32	.10	.25	.55	T.	.16	.35	.80	.35						.15		T.						.20		.67	.10		.32	.03		4.35		
Sharon|||	Beaver	.16					.38	.36	.42							.09								.06		.09	.10	.09	.07	T.			1.82	
Somerset	Youghiogheny																																	
Springdale|||	Allegheny	.34	.01	.13	.19		.02	.28	.04	.58						.06		.02		.02				.04		.12	.03		.12	.03			2.03	
Uniontown	Monongahela	.04		.22			.28	T.	.76	.03			T.			.07								.08	.05	.02			.25				1.80	
Unity Reservoir||	Youghiogheny	.08		.24		.10	.12	.16	.34	.04						T.								.10	.15			.24				1.57		
Vandergrift	Conemaugh	.12		.30		.05	.07	.25	.65							.10								.17	.25				.15			2.11		
Warren	Allegheny	.35	.07	.36	.20	.05	.02	.10	.40	.16						.24	.04	.04						.03	.06	.30	.08	.13		.06		.06	2.75	
Washington	Ohio																																	
Waynesburg|||	Monongahela																																	
Westford|||	Beaver	.16	.08	.42	T.			.72	.68	.32						.15				T.						.47	T.		.27				3.27	
West Newton|||	Youghiogheny	.09		.02	.08		.02	.19	.05	.41						.02									.04								0.92	
Zelienople|||	Ohio	.25	T.	.27	.14	T.		.32	.14	.55						.04		.11		T.	T.			.03	T.	.22	.03	.02	.24	.01			2.37	
Lake Drainage.																																		
Erie***	Lake Erie	.12	T.	.74		.17	T.	.63	1.03						.14	T.	.02	T.	T.	T.				.19		.29	.15	T.	.12	.15	T.	T.	3.75	
West Bingham	Genesee	.10		.60		.25		.28	.75	.08							.14	T.							.52	.08			.22	.05	.16		3.23	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. §§ Post Office addresses are as follows: of Bloersville Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Ketner, Johnsonburg; of Paupack Electric, Hawley; of Pennline, Linesville; of Snow Hill, Analomink; of Unity Reservoir, Greensburg.

Daily Temperatures for April, 1926

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum ...	41	47	53	58	44	54	60	59	62	60	49	55	60	46	65	50	54	44	53	71	79	75	74	61	52	57	55	58	67	...	57.2	
	Minimum ...	33	34	29	35	30	31	35	40	36	42	25	25	35	29	28	37	29	34	31	30	51	57	44	46	41	31	39	41	44	...	35.9	
Altoona.....	Maximum ...	38	47	49	47	51	39	63	58	56	61	60	48	53	62	58	60	49	49	47	51	73	77	71	72	54	43	58	56	55	74	...	56.0
	Minimum ...	26	27	34	25	31	23	29	47	32	27	39	20	28	37	22	29	31	18	22	20	43	59	50	41	36	32	26	42	33	43	...	32.4
Beaver Dam.....	Maximum ...	46	49	50	49	53	41	73	67	49	61	61	51	61	67	66	57	56	47	46	56	76	76	72	72	60	47	60	59	57	80	...	58.8
	Minimum ...	29	31	34	28	33	35	35	37	30	29	37	25	32	36	24	27	33	22	23	20	42	55	50	42	39	34	27	40	36	48	...	33.8
Bradford.....	Maximum ...	38	41	43	45	...	45	55	50	46	59	55	50	63	63	50	47	42	...	43	48	72	71	69	71	60	40	57	53	50	63	...	53.4 ^b
	Minimum ...	26	25	30	22	...	19	33	35	29	25	34	19	21	30	17	37	28	...	20	19	43	53	49	33	32	31	22	36	29	39	...	29.9 ^b
Brookville.....	Maximum ...	32	45	48	49	45	39	71	58	50	...	59	60	64	48	54	44	46	37	53	75	76	74	74	49	42	57	50	54	73	...	54.5 ^b	
	Minimum ...	26	27	24	25	20	34	30	24	...	17	19	27	19	19	15	14	16	11	30	49	33	32	33	25	24	28	25	42	...	25.5 ^b		
Carlisle.....	Maximum ...	41	62	50	60	58	52	65	62	66	68	65	56	64	68	60	70	57	66	51	62	81	82	84	82	62	56	62	70	74	80	...	64.5
	Minimum ...	34	32	35	31	33	30	33	46	37	34	40	23	28	38	33	25	38	26	24	22	45	64	62	55	43	39	42	30	40	54	...	37.2
Catawissa.....	Maximum ...	39	50	50	55	58	46	63	56	59	65	61	53	58	61	50	63	51	55	42	51	77	78	79	74	57	52	59	59	59	64	...	58.1
	Minimum ...	31	30	32	30	29	25	32	42	33	28	37	19	25	35	25	23	28	22	20	23	42	56	50	39	40	37	26	43	34	42	...	32.6
Chambersburg.....	Maximum ...	42	55	53	54	60	55	62	59	60	63	61	51	55	61	59	67	57	54	51	54	77	80	73	76	61	53	61	60	61	80	...	60.5
	Minimum ...	32	31	35	30	30	29	32	47	49	30	24	...	17	19	27	39	27	25	26	37	61	53	44	45	39	28	48	31	42	...	36.0	
Claysville.....	Maximum ...	39	53	60	51	54	41	77	65	54	65	63	50	61	65	60	59	56	50	46	57	75	76	71	69	60	47	63	59	59	81	...	59.5
	Minimum ...	26	24	33	24	31	25	34	37	27	24	38	25	29	43	22	27	30	23	21	16	41	55	51	47	37	31	23	40	36	45	...	32.2
Clearfield.....	Maximum ...	35	52	47	53	48	43	75	71	56	64	54	56	63	65	60	58	47	53	42	55	77	76	81	80	55	46	61	56	55	75	...	58.6
	Minimum ...	22	28	15	26	27	23	32	47	30	31	21	20	22	31	20	21	30	17	21	13	34	49	51	35	28	30	22	40	29	39	...	28.5
Coatesville.....	Maximum ...	42	48	57	52	61	49	59	68	60	63	59	46	52	61	50	63	53	53	44	52	76	80	72	74	61	54	58	58	57	74	...	58.5
	Minimum ...	33	31	28	31	26	31	32	45	40	32	40	25	27	32	32	20	39	22	28	23	40	57	54	43	44	38	26	42	39	42	...	34.7
Corry.....	Maximum ...	38	40	44	43	37	42	51	47	47	56	55	48	63	63	46	47	48	40	48	72	69	67	67	56	39	55	51	50	69	...	51.5	
	Minimum ...	24	24	25	20	30	19	32	31	25	24	23	18	22	35	12	26	18	20	17	41	53	45	38	30	28	23	34	28	42	...	27.6	
Emporium.....	Maximum ...	38	42	44	48	46	44	62	54	50	58	49	58	62	52	55	42	45	34	51	74	77	72	73	52	48	55	55	53	72	...	53.6	
	Minimum ...	20	29	30	28	26	24	34	38	28	24	30	17	20	27	19	25	32	19	20	20	36	55	49	32	37	35	21	39	28	37	...	29.2
Erie.....	Maximum ...	30	37	50	40	40	38	50	34	42	54	50	35	56	62	31	51	36	38	33	54	73	70	60	65	53	39	53	50	52	73	...	48.3
	Minimum ...	28	28	27	23	28	25	34	32	29	30	25	22	26	25	20	29	30	25	25	26	48	54	44	44	33	31	31	36	37	41	...	31.2
Franklin.....	Maximum ...	35	47	58	48	44	47	65	52	50	59	49	54	62	65	44	52	38	47	38	54	75	71	73	68	42	45	59	47	54	75	...	53.9
	Minimum ...	27	27	28	25	25	21	26	44	27	25	22	18	23	30	18	18	29	19	22	19	28	48	49	39	38	30	21	28	29	34	...	27.9
Freeland.....	Maximum ...	30	38	42	40	50	39	58	48	48	52	46	50	58	44	57	40	42	36	42	67	70	68	67	50	45	48	52	53	59	...	49.3	
	Minimum ...	22	21	24	22	30	14	26	38	26	27	28	10	26	27	14	27	26	22	17	14	33	50	47	45	36	29	24	36	30	36	...	27.6
Gettysburg.....	Maximum ...	43	57	55	65	63	58	61	70	69	68	59	48	55	65	63	70	62	55	53	56	80	79	77	77	71	58	63	65	63	83	...	63.4
	Minimum ...	32	30	35	30	30	31	31	48	39	33	40	25	29	39	35	26	40	29	27	25	42	60	54	46	46	39	30	47	33	44	...	36.5
Greensburg.....	Maximum ...	39	50	52	48	52	40	76	71	53	62	59	49	60	63	59	58	54	50	46	53	74	74	70	77	55	45	61	57	57	79	...	58.1
	Minimum ...	28	28	33	27	33	27	35	42	31	30	39	25	30	43	23	28	31	21	24	19	37	50	51	45	38	34	24	40	35	47	...	33.3
Grove City.....	Maximum ...	31	46	46	47	46	36	67	60	48	58	57	48	59	65	63	51	53	44	43	53	74	72	70	67	57	42	56	52	53	73	...	54.6
	Minimum ...	26	26	30	24	24	26	34	37	27	29	37	21	29	35	19	28	29	19	21	19	39	39	50	45	35	31	21	32	31	41	...	30.1
Hamburg.....	Maximum ...	38	47	49	47	56	50	50	52	56	43	50	57	60	53	47	60	52	48	40	49	75	75	74	73	70	49	53	54	54	64	...	54.8
	Minimum ...	32	30	33	29	38	28	31	34	38	33	30	23	24	36	28	22	37	25	25	25	30	54	56	40	43	38	26	39	39	39	...	33.5
Harrisburg.....	Maximum ...	41	43	53	52	57	38	59	54	56	62	58	45	52	58	53	64	50	50	40	54	76	77	74	74	56	51	58	59	58	74	...	56.7
	Minimum ...	35	34	36	32	38	32	33	45	41	38	34	26	32	38	32	34	36	31	31	29	47	63	57	51	44	40	36	45	41	47	...	38.6
Hawley.....	Maximum ...	36	38	44	47	50	45	52	53	54	59	58	45	58	63	60	60	52	48	41	45	74	78	73	73	63	47	55	53	55	62	...	54.7
	Minimum ...	31	28	23	30	26	22	32	37	33	27	31	16	18	24	22	17	31	22	15	23	28	44	50	32	39	36	21	32	34	42	...	28.9
Huntingdon.....	Maximum ...	41	49	51	52	56	45	68	67	59	64	64	57	55	64	62	57	54	58	51	54	72	79	75	75	68	47	62	59	69	72	...	60.4
	Minimum ...	31	32	35	28	29	26	32	48	35	27	33	21	25	39	21	20	35	19	21	24	49	61	52	39	41	37	25	41	29	42	...	33.2
Indiana.....	Maximum ...	40	35	35	47	50	40	73	71	53	55	50	51	59	60	60	50	57	44	51	72	71	69	75	50	45	59	55	55	75	...	55.6	
	Minimum ...	26	28	30	25	29	25	31	51	30	25	27	23	22	41	19	25	22	18	24	20	31	40	42	40	36	32	29	43	29	45	...	30.3
Johnstown.....	Maximum ...	38	52	52	50	55	35	76	62	57	66	56	52	57	65	52	59	47	54	36	55	76	79	77	75	50	47	65	56	58	80	...	58.0
	Minimum ...	28	30	34	28	33	27	35	42	33	31	38	25	30	41	25	39	33	24	27	24	42	57	53	47	38	34	28	40	35			

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXI.

MAY, 1926.

No. 5

GENERAL SUMMARY.

The month as a whole was dry and cool, and while the conditions were favorable for outdoor work of all kinds, they were not so favorable for growing crops. Freezing temperatures occurred in nearly all parts of the State on the 4th and 5th, and light frosts occurred in the northern counties on several dates. There was no extensive killing of vegetation by freezing, but the numerous cold nights made for a very slow growth and for slow and irregular germination of seeds. The rainfall was barely enough to keep the crops alive and growing slowly. Corn came up slowly and unevenly, and there was some replanting, although probably no more than occurs during the average spring. Cultivation of the early planted fields was in progress during the last week of the month. Wheat headed out in fair to good condition, but with generally short straw. Oats grew slowly and also promised a short straw. Pastures generally furnished enough feed for stock, but did not build up the usual reserve that is needed to carry them through the summer months in good condition. Meadows also suffered from the lack of moisture, and timothy and clover were reported as being short and thin. It was indicated that the first cutting would be little more than half of a normal yield. Alfalfa, being a deep rooted plant, was not affected so much by the drought, and was generally fair to good. Orchard fruits were not damaged by frost except in a few localities, and at the end of the month they were in the best and most promising condition for several years. Blackberries and raspberries were also good to excellent, but the strawberry crop was more or less stunted by the drought.

TEMPERATURE.

The mean temperature for the State, as computed from the records of 81 stations, was 58.8°, or a deficiency of 0.7° as compared with the May normal. The highest mean was 65.0° at Carlisle, and the lowest was 49.7°, at West Bingham. The highest temperature recorded during the month was 95°, at Carlisle, on the 7th, while the lowest, 18°, occurred at West Bingham, on the 5th, equalling the absolute May minimum for the State, which has been recorded during three previous Mays since 1888. The greatest daily temperature range was 55°, at two stations: Lawrenceville, on the 17th, and Hyndman on the 18th.

PRECIPITATION.

The average precipitation for the State, as determined from the records of 136 well distributed stations was 1.78 inches, which is 2.21 inches below the May normal. The greatest monthly total was 5.52 inches, at Grove City, which station also reported the greatest 24-hour rainfall: 4.30 inches on the 31st. The least amount recorded during the month was 0.62 at Wellsboro. No measurable amounts of snow were recorded although traces fell at a few stations on the 4th, 10th, and 11th, and at Freeland as late as the 24th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total move- ment, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	*Highest	Direction	Date
Erie.....	325.2	451.8	72	72	68	8,083	10.9	43	sw.	22
Harrisburg.....	334.6	446.2	75	57	44	5,576	7.5	36	nw.	17
Philadelphia.....	325.6	446.2	73	62	54	7,222	9.7	30	sw.	15
Pittsburgh.....	281.5	449.0	63	70	54	7,290	9.8	46	w.	19
Reading.....	301.2	446.2	67	61	57	4,180	5.6	22	n.	11
Scranton.....	283.8	449.0	63	58	49	5,302	7.4	28	w.	3

* For any five-minute period.

COMPARATIVE DATA FOR MAY

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	57.3	91	24	4.24	8.41	2.26	.....	.....	.....
1889.....	60.4	96	25	5.91	12.41	2.51	.....	.....	.....
1890.....	58.5	89	23	6.71	12.41	2.96	7	11	13
1891.....	57.3	93	20	2.12	4.41	0.31	10	10	11
1892.....	58.5	91	28	5.70	9.30	3.77	7	10	14
1893.....	57.9	93	26	5.54	9.20	2.92	11	8	12
1894.....	60.8	92	27	8.88	15.02	2.72	9	8	14
1895.....	60.6	110	22	2.68	6.46	0.86	13	10	8
1896.....	65.4	98	31	2.85	6.30	1.19	10	12	9
1897.....	57.7	88	25	5.24	10.05	1.71	11	10	10
1898.....	60.0	94	22	5.11	10.15	2.79	8	9	14
1899.....	61.1	100	24	3.82	6.40	1.15	10	11	10
1900.....	60.4	96	20	2.79	7.63	0.72	13	9	9
1901.....	58.9	91	28	5.56	7.96	2.24	8	9	14
1902.....	59.8	95	25	1.96	4.45	0.29	13	11	7
1903.....	61.8	94	18	1.67	4.65	0.22	16	9	6
1904.....	61.6	94	21	3.78	7.50	2.07	12	10	9
1905.....	60.8	93	22	2.59	5.17	0.66	11	9	11
1906.....	60.0	99	23	3.23	5.59	0.93	12	10	9
1907.....	54.8	91	19	3.08	6.38	1.44	11	9	11
1908.....	61.2	96	22	6.28	10.95	3.19	10	10	11
1909.....	59.2	92	23	2.90	5.52	1.51	12	10	9
1910.....	56.8	88	24	3.38	6.08	1.73	11	10	10
1911.....	65.2	99	20	1.97	6.81	0.42	17	10	4
1912.....	61.2	91	28	3.15	5.99	0.99	14	8	9
1913.....	58.5	93	21	3.86	6.45	0.48	13	8	10
1914.....	61.5	96	19	3.34	6.52	0.90	16	8	6
1915.....	56.2	84	21	4.16	7.45	2.29	10	8	13
1916.....	61.0	93	26	3.19	6.09	1.49	12	11	8
1917.....	53.3	90	20	3.39	8.09	1.65	9	10	12
1918.....	65.1	95	21	5.04	8.37	1.81	13	12	6
1919.....	59.5	98	27	5.80	13.59	2.86	13	7	11
1920.....	56.6	92	18	2.02	3.65	0.67	17	8	6
1921.....	59.8	93	22	3.93	8.17	0.97	14	8	9
1922.....	62.5	96	20	3.21	7.14	1.69	15	8	8
1923.....	58.3	93	20	3.50	7.43	1.23	19	6	6
1924.....	54.6	92	18	5.71	9.64	3.31	9	9	13
1925.....	55.2	98	22	3.49	7.98	1.02	13	10	8
1926.....	58.8	95	18	1.78	5.52	0.62	17	10	4

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.3	4.6	1	2.3	30	18
Phillipsburg.....	Delaware.....	2.1	4.5	1	1.0	29	22
Mauch Chunk.....	Lehigh.....	3.6	4.2	1	3.4	19	12
Wilkes-Barre.....	Susquehanna.....	4.8	7.7	1	3.3	30	20
Williamsport.....	Susquehanna.....	1.5	2.7	1	0.8	30	20
Harrisburg.....	Susquehanna.....	4.2	5.2	1	3.6	30	17
Freeport.....	Allegheny.....	3.3	5.4	1	2.4	30	22
West Newton.....	Youghiogheny.....	0.6	0.7	1	0.4	17	20
Lock No. 4.....	Monongahela.....	13.6	14.5	1	13.0	29	31
Pittsburgh.....	Ohio.....	11.1	12.2	1	10.6	27	25
Beaver Dam.....	Ohio.....	7.9	9.1	1	7.1	19	30

Climatological Data for May, 1926

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr					Precipitation, in inches				No. of days				Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear			Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	14	60.6	.....	86	2	33	24	38	2.31	-1.31	0.69	0	13	21	7	3	nw.	John A. Frick.
Altoona	Blair	1,615	39	58.4	-1.0	87	7	29	4	41	1.41	-2.61	0.43	0	8	16	14	1	w.	Lewis E. Biller.
Bethlehem	Northampton	295	42	62.0	-1.0	86	2	36	4	35	2.22	-1.50	0.82	0	7	27	1	3	nw.	Lehigh University.
Biglerville	Adams	652	4	.....	.....	.....	.....	.....	.....	.....	1.80	.....	.....	.....	.....	.....	.....	.....	.....	R. C. Walton.
Bustleton	Philadelphia	125	7	61.7	.....	87	2	36	5	41	3.65	.....	1.68	0	7	18	8	5	w.	Experiment Station.
Canton	Bradford	1,300	.....	56.4	.....	85	2	27	5	40	0.67	.....	0.33	0	5	13	11	7	nw.	Marble Laboratory. In
Carlisle	Cumberland	467	59	65.0	+3.6	95	7	33	5	47	1.67	-2.16	0.84	0	6	25	4	2	nw.	Prof. C. E. Miller.
Catawissa	Columbia	520	29	59.3	-2.1	91	2	27	5	52	1.81	-1.77	1.37	0	3	22	8	1	.....	H. H. Yetter.
Center Hall	Center	1,272	30	57.2	-2.6	85	12	29	5	45	0.65	-3.35	0.46	0	4	24	4	3	.....	S. W. Smith.
Chambersburg	Franklin	580	26	60.8	-0.4	88	7	28	5	48	0.91	-2.74	0.38	0	7	17	8	6	sw.	William B. Spear.
Clearfield	Clearfield	1,120	16	58.8	-1.0	91	2	26	5	51	1.16	-3.62	0.45	0	6	17	12	2	sw.	E. W. Hess.
Coatesville	Chester	380	38	59.4	-2.3	86	2	28	5	43	2.63	-1.40	0.82	0	9	13	16	2	sw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	16	59.2	.....	86	2	32	5	40	1.90	-1.33	0.57	0	10	20	4	7	nw.	Wm. A. Rorer.
Emporium	Cameron	1,050	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. B. Lloyd.
Ephrata	Lancaster	380	25	60.4	-0.5	86	2	34	5	40	2.34	-0.19	0.64	0	8	14	10	7	nw.	Ira J. Keath.
Freeland	Luzerne	1,970	11	54.4	.....	81	19	23	4	40	1.39	.....	0.72	T.	8	12	13	6	nw.	Theo. Reichmann.
George School	Bucks	190	19	59.8	-1.2	86	2	33	5	42	2.73	-0.88	1.13	0	7	18	9	4	s.	Prof. N. W. Swayne
Gettysburg	Adams	600	52	62.8	+1.5	88	2	33	5	42	1.63	-2.34	0.76	0	8	16	11	4	sw.	Col. E. B. Cope.
Gordon	Schuylkill	840	22	56.5	-2.0	87	2	25	5	50	1.45	-2.31	0.68	0	5	19	9	3	n.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	2	52.8	.....	82	2	26	4	38	1.58	-3.12	0.68	0	7	19	8	4	w.	Gustav Holtz.
Hamburg	Berks	535	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	State Sanatorium.
Hanover	York	600	22	62.0	-1.9	87	2	33	26	53	1.54	-1.76	0.76	0	9	24	5	2	w.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	56	62.4	+0.6	85	2	37	4	35	1.63	-2.04	0.54	0	7	12	13	6	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	7	56.4	.....	87	2	25	5	45	2.06	.....	0.92	0	5	16	9	6	n.	J. S. Pennell.
Holtwood	Lancaster	200	11	61.6	.....	83	13	42	5	32	2.67	.....	0.54	0	10	16	4	11	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	38	60.4	-0.3	91	2	28	5	53	1.74	-2.58	0.85	0	6	14	10	7	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	.....	60.6	.....	91	2	28	5	55	0.95	.....	0.23	0	9	12	15	4	.....	John S. Madore.
Lancaster	Lancaster	255	38	59.8	-1.2	85	7	29	5	45	3.30	+0.02	0.97	0	7	22	8	1	e.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	28	55.5	-2.0	86	2	27	5	55	0.85	-3.01	0.65	0	3	18	8	5	.....	C. P. Darling.
Lebanon	Lebanon	469	85	60.9	-0.1	86	2	35	5	39	1.89	-2.64	0.40	0	8	19	10	2	sw.	S. B. Benzing.
Lewisburg	Union	450	51	60.3	+1.8	90	17	31	5	53	1.22	-2.71	0.72	0	5	19	11	1	w.	Prof. W. G. Owens.
Lykens	Dauphin	680	11	58.6	.....	89	2	26	5	50	0.86	.....	0.43	0	6	24	5	2	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	35	58.8	-1.3	86	2	30	10	42	2.07	-1.94	0.99	0	5	17	12	2	sw.	R. K. Wintermute.
Mifflintown	Juniata	445	22	61.0	+0.3	87	2	29	5	51	1.40	-2.34	0.48	0	5	17	9	5	nw.	Wellington Smith.
Montrose	Susquehanna	1,720	23	53.6	-1.4	82	2	22	5	40	1.52	-2.18	0.82	0	5	10	19	2	w.	Silas Jagger.
Mt. Pocono	Monroe	1,658	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	14	55.0	.....	84	8	27	5	52	0.99	-3.38	0.50	0	5	20	11	0	w.	A. H. Boatman.
Narberth	Montgomery	600	7	61.1	.....	85	2	36	5	39	2.76	.....	1.13	0	11	16	9	6	nw.	Charles Decker.
Neshaminy Falls	Bucks	60	37	59.0	.....	86	2	33	5	44	4.00	.....	1.30	0	9	23	6	2	w.	North Springfield Water Co.
Palmerton	Carbon	398	9	59.2	.....	88	2	29	5	40	2.02	.....	1.81	0	6	12	15	4	ne.	F. G. Breyer.
Philadelphia	Philadelphia	114	55	63.0	+0.1	85	2	42	4	34	2.31	-0.89	0.98	0	10	14	11	6	sw.	U. S. Weather Bureau.
Phila. Navy Yard	Philadelphia	12	10	61.4	.....	86	2	41	4	37	2.14	.....	0.60	0	6	.....	.....	.....	.....	Commandant, Navy Yard.
Phila. Point Breeze	Philadelphia	90	1	62.8	.....	86	2	42	4	36	2.38	.....	0.90	0	11	14	14	3	sw.	Atlantic Refining Co.
Philadelphia-Gtn.	Philadelphia	113	1	63.2	.....	88	2	40	5	37	2.47	.....	1.10	0	7	18	10	3	.....	Julius Bernstein.
Phoenixville	Chester	100	15	61.3	.....	86	2	29	25	47	3.79	.....	1.82	0	7	25	5	1	s.	North Springfield Water Co.
Quakertown	Bucks	496	41	58.4	-1.2	85	2	30	5	45	2.27	-1.75	0.68	0	9	18	9	4	nw.	John E. Benner.
Reading	Berks	325	56	61.5	-1.0	88	2	38	5	27	2.07	-1.30	0.76	0	9	15	13	3	nw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	31	57.9	-1.5	85	2	32	4	38	1.66	-1.78	0.77	0	4	9	10	12	nw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	36	59.0	-2.1	86	2	28	5	49	0.88	-3.20	0.53	0	5	13	14	4	nw.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	30	62.0	.....	83	2	39	5	38	2.32	.....	0.97	0	7	19	7	5	nw.	W. S. Gullies.
State College	Center	1,217	41	59.4	+0.3	89	2	30	4	42	0.96	-3.01	0.35	0	7	14	15	2	nw.	C. A. Kern.
Towanda	Bradford	754	31	55.4	-2.6	85	2	26	5	44	0.85	-2.36	0.55	T.	4	9	18	4	nw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	60	54.0	-2.8	84	2	25	5	53	0.62	-3.43	0.52	0	2	26	4	1	nw.	George W. Hill.
West Chester	Chester	455	88	60.7	0.0	86	2	35	5	41	2.27	-2.18	0.73	0	10	18	11	2	nw.	Arthur M. Hay.
Williamsport	Lycoming	521	39	60.8	+0.1	86	17	32	5	44	1.47	-1.73	0.69	0	6	23	6	2	nw.	George A. Beck.
York	York	400	38	60.4	-1.3	90	2	26	5	46	2.16	-1.22	0.75	0	7	15	13	3	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	33	60.5	.....	87	2	32	4	40	1.78	-1.34	0.93	0	13	16	4	11	sw.	U. S. Engineer.
Bradford	McKean	1,427	11	58.7	.....	84	2	26	4	51	1.12	.....	0.76	0	8	.....	.....	.....	.....	City Engineer.
Brookville	Jefferson	1,173	35	53.9	-2.6	87	2	29	4	51	1.13	-2.54	0.65	0	3	22	4	5	.....	John Fawcett.
Claysville	Washington	1,150	22	61.0	-0.3	89	2	30	4	45	2.29	-1.15	0.62	0	13	19	5	7	s.	J. L. Melvin.
Corry	Erie	1,430	14	54.0	.....	85	30	24	4	44	1.09	.....	0.40	T.	11	14	14	3	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	29	60.3	-1.2	90	2	29	5	44	1.30	-2.15	0.33	0	9	17	12	2	w.	Ted R. Wineman.
Ebensburg	Cambria	2,000	8	57.7	.....	83	2	26	4	38	1.88	.....	0.54	0	8	23	6	2	w.	D. H. Jones.
Elk Lick	Somerset	2,680	9	51.8	.....	84	2	26	4	37	1.37	.....	0.48	0	10	20	5	6	w.	J. S. Stevanus.
Franklin	Venango	957	53	56.0	-2.0	86	30	27												

Continued on page 24

Daily Precipitation for May, 1926—Continued from page 23

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio.....	.01			.28							.01				.08			.17	.56	.37		.18	.03	.01	.01		.03					.04	1.78
Beaver Falls|||	Beaver.....	.05		T.	.23						T.					.03			.43	.89	.21		.13	.03	T.	T.		.02					.08	2.09
Bradford.....	Allegheny.....		.10								.02					.11				.76	T.		.05	.04	.04								*	1.12
Brookville.....	do.....		T.											.28				T.	.33			.20											.65	1.11
Claysville.....	Ohio.....	.12		.24							.01	.01			.03	.05		T.	.33	.62		.42	.07	T.		.03	.05					.31	2.29	
Cloe||	Allegheny.....		.09											.13				.17	.20			.23		.50			.03	.05			.15	.41	1.88	
Clymer||	Conemaugh.....		.13											.06	.17			.24	.69	.66		.16		.16								.78	3.05	
Confluence|||	Youghiogheny.....		.05								.10				.20	.03			.30	.05			.16	.04	.05							.10	1.08	
Coraopolis|||	Ohio.....	.05			.19		T.				.05			.01	.06	T.		.01	.63	.61		.32	.02	T.	.01		.02					.22	2.20	
Corry.....	Allegheny.....		.05	.15	T.		.05				T.			.02	.07			T.		.40	T.		.04	.11	.16						.01	.03	1.09	
Coudersport.....	do.....		.08	.11															.60				.30	.10							.25	.10	1.44	
Creekside.....	Allegheny.....																.22	.80	.08			.25		.06								.54	1.95	
Derry.....	Conemaugh.....	T.		.16							.07				.05	.06		.06	.33	.28		*		.10		T.						.19	1.30	
Ebensburg.....	Conemaugh.....		.33											T.	.09		.10	.05	.40			.21		.16								.54	1.88	
Elk Lick.....	Youghiogheny.....		.08								.06			.14			.20	.08	.48					.08	.04		.05					.16	1.37	
Falls Creek.....	Allegheny.....		.07												.07					.61			.23	.09	.84							.76	2.17	
Franklin|||	Allegheny.....			.15		.05								.15				.20	.13			.08	.09	.26								.27	1.38	
Freeport|||	Allegheny.....	.02													.30			.21	1.25	.30		.27		.03	.02		.02					.30	2.72	
Greensburg.....	Youghiogheny.....	.02		.15							.05				.06	.06		.07	.55	.40			.27		.07		.03					.05	1.78	
Greenville.....	Beaver.....		.20											.23				.33				.02		.37							.23		1.38	
Grove City.....	Beaver.....		.13											.19			T.		.60			.05	.12									4.30	5.52	
Herrs Isl. Dam|||	Ohio.....	.04		.20		T.					.05				.16	T.		.05	.85	.36		.28	.03	T.	.01		.02					.36	2.41	
Indiana.....	Conemaugh.....		.01												.16		.04	.85	.80	.70		.15	.07	.09							.50	3.37		
Ingram.....	Ohio.....	.07		.17							.04				.13	.04		T.	.80	.60			.30	.04	.03		.04	T.			.13	.06	2.45	
Irwin.....	Youghiogheny.....		.05								.05	.01			.07	.08		T.	.07	.41			.18		.05								.09	0.97
Johnstown.....	Conemaugh.....		T.	.08							.05	.01			.09	.05		.12	.40	.27			.16	.07	.07				.01		.01	.01	1.40	
Ketner|||	Allegheny.....																															.30	1.63	
Kregar|||	Youghiogheny.....	.02	T.		.28						.05							.10		.04	.34	.23		.15		.10		.02					.04	1.52
Linesville|||	Beaver.....		*	.37	.13										.07	.09				.42			.05	.14	.21								.04	1.62
Lock No. 4|||	Monongahela.....			.14								.05				.10	T.		.41	.41	.07		.08	.06		.01		.03					1.36	
Lycippus.....	Conemaugh.....		.24								.08				.05	.08			.25	.64			.26		.05		.04					.45	2.14	
Martin.....	Monongahela.....	.01		.13							.01	.06			.04	.30	.03		T.	.06	.17			.14	.06	.05	T.	.07			.05		1.18	
Mount Lebanon.....	Ohio.....	.15		.22							.07				.03	.03		T.	.70	.46			.27	.05	.05		.02	.02				T.	2.07	
New Castle|||	Beaver.....		.22		.01										.04				.50	.15		.11	.01	.04							.85	.16	2.09	
Newell.....	Monongahela.....		.12								.02				.04	.30	.02		.16	.36	.03		.17		.02			.01				.04	1.29	
Parkers Landing|||	Allegheny.....			.05											.12				.38	.23		.20	T.	.23	.05							.90	2.16	
Pennline|||	Beaver.....		.43	.03										.06	.06				.32	.17		.04	.17	.20							.04	1.52		
Pittsburgh***	Ohio.....		.18								.04				.12	T.		T.	.85	.25			.20	.02	.01		.02				.41	T.	2.10	
Ridgway||	Allegheny.....		.15																.51				.14	.06	.22							.38	1.46	
Saltsburg|||	Conemaugh.....														.10				.28	.60	.38		.04	.18							.15	1.73		
Saegertown|||	Allegheny.....			.37							.07	.07							.41	.43		.08	.20	.59								.04	2.17	
Sharon|||	Beaver.....		T.												.15				.50	.12			.05	.03	.04							1.25	2.14	
Somerset.....	Youghiogheny.....																		.15	.72	.39		.38	.02	.01	.03							.13	2.48
Springdale|||	Allegheny.....	.02		.20							.05					.34			.15	.72	.39		.38	.02	.01	.03							.13	2.48
Uniontown.....	Monongahela.....		T.	.35							.02				.08	.28		T.	.50				.19	.04	.04		.02				T.	.03	1.55	
Unity Reservoir||	Youghiogheny.....		.23								.07				.05			.03	.51	.28			.18		.07		.04						.03	1.46
Vandergrift.....	Conemaugh.....		.15								.05				.25			.11	.55	.30					.45								.186	
Warren.....	Allegheny.....		.06	.08		.06									.02				.23	.20			.05	.03	.08							.20	1.11	
Washington.....	Ohio.....		.18	T.							.05				.17	T.		.29	.34	.12			.38	.03	.01	T.	.04				.07	.01	1.69	
Waynesburg|||	Monongahela.....																																	
Westford|||	Beaver.....		.25															.32					T.	.38								.12	1.21	
West Newton||	Youghiogheny.....	.05	.03		.12							.04				.06	T.		.11	.79	.07		.14	.04	T.	.07		.05			T.		1.57	
Zelienople|||	Ohio.....			T.	.24											.04				.28	.56	.28		.16	T.		.06		.07			.16	1.85	
Lake Drainage.																																		
Erie***	Lake Erie.....		.29		.06						T.				.03	.09			T.	.48		.01	.06	.03	.14						.01	T.	1.20	
West Bingham.....	Genesee.....		.05	.10					T.		T.									.74			.15	.08	.05						.32		1.49	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Ketner, Johnsonburg; of Paupack Electric, Hawley; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink; of Unity Reservoir, Greensburg.

Daily Temperatures for May, 1926

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum... 72	86	84	68	69	77	85	77	66	66	62	72	78	78	81	63	83	85	83	73	76	78	59	60	77	74	72	66	75	78	78	74.2	
	Minimum... 47	48	56	37	35	42	51	50	41	42	44	46	40	53	52	54	47	59	58	53	43	47	49	33	42	45	44	50	46	47	54	46.9	
Altoona.....	Maximum... 82	82	79	57	69	81	87	81	78	63	63	72	71	71	64	72	81	78	78	70	77	69	68	66	72	71	72	66	74	81	81	73.4	
	Minimum... 57	52	50	29	30	52	52	49	42	36	33	34	39	49	45	47	40	56	50	42	36	46	40	35	37	37	37	47	41	45	60	43.4	
Beaver Dam.....	Maximum... 83	87	86	55	66	83	86	85	82	68	64	69	66	73	65	75	83	80	79	70	80	80	67	74	75	74	75	75	81	86	83	76.0	
	Minimum... 48	50	47	32	41	46	46	47	47	36	34	41	36	46	49	39	45	55	56	42	41	57	41	41	41	41	42	42	50	50	64	45.0	
Bradford.....	Maximum... 83	84	81	52	77	81	82	...	72	59	54	67	69	70	62	70	76	80	70	...	75	75	59	62	78	...	71	...	...	...	...	71.2*
	Minimum... 39	42	42	26	26	47	43	...	34	28	30	36	26	36	48	30	32	44	51	...	30	52	35	31	31	...	31	...	...	...	...	36.2*
Brookville.....	Maximum... 82	87	68	57	67	...	87	82	69	64	63	73	72	74	66	75	81	81	75	66	79	72	56	66	72	70	74	74	79	85	78	73.1*	
	Minimum... 39	41	30	27	23	...	39	41	30	26	27	28	27	37	42	33	30	47	44	31	29	45	29	31	31	30	31	36	36	41	61	34.7*	
Carlisle.....	Maximum... 87	94	88	72	80	88	95	88	84	78	77	84	84	81	80	78	87	87	86	74	78	78	70	70	78	78	80	77	80	82	88	81.6	
	Minimum... 56	48	54	36	33	43	52	52	47	38	39	39	50	50	46	50	41	60	55	50	60	54	48	40	56	56	45	62	42	44	56	48.5	
Catawissa.....	Maximum... 79	91	85	85	70	81	86	80	74	71	62	75	80	81	74	72	85	87	86	82	78	75	54	62	68	76	76	68	76	81	85	76.9	
	Minimum... 41	45	50	33	27	40	52	43	41	33	37	38	34	51	46	51	36	51	40	48	35	48	50	31	34	37	36	46	38	42	50	41.7	
Chambersburg.....	Maximum... 79	87	81	62	70	80	88	85	80	73	70	75	77	74	76	71	84	85	82	72	76	75	72	79	76	73	71	75	80	85	76.9		
	Minimum... 60	49	52	36	28	42	48	50	48	40	39	35	37	50	41	50	36	56	57	48	36	43	49	36	44	39	42	53	38	42	58	44.6	
Claysville.....	Maximum... 86	89	82	58	68	85	89	87	83	72	68	78	73	74	62	77	84	82	75	70	82	78	71	78	76	68	74	82	83	87	81	77.5	
	Minimum... 53	52	48	30	36	45	44	45	48	43	30	36	33	50	47	37	44	53	39	41	55	40	38	38	48	41	44	52	55	62	44.5		
Clearfield.....	Maximum... 88	91	79	63	76	86	83	81	75	68	66	80	80	78	68	85	84	83	78	70	83	82	61	69	72	77	80	75	83	91	82	78.4	
	Minimum... 46	44	48	30	26	50	44	44	41	29	28	34	44	44	44	38	34	54	51	41	32	48	36	33	32	33	35	43	37	42	43	39.2	
Coatesville.....	Maximum... 73	86	80	60	66	76	82	79	73	61	66	72	76	76	77	60	79	83	83	70	74	78	64	64	75	71	72	65	72	75	79	73.1	
	Minimum... 50	43	59	38	28	40	54	49	48	39	42	40	39	53	51	52	49	58	58	51	36	44	42	37	38	39	47	48	41	46	54	45.6	
Corry.....	Maximum... 77	83	76	48	58	80	81	73	65	55	56	62	67	69	68	74	76	78	68	60	78	72	52	61	67	67	69	74	79	85	82	69.7	
	Minimum... 35	47	37	24	28	47	44	45	37	31	29	32	30	36	45	32	38	48	51	39	34	45	35	32	31	35	35	37	42	48	61	38.4	
Emporium.....	Maximum...
	Minimum...
Erie.....	Maximum... 68	82	66	45	57	73	73	66	61	48	51	56	64	57	62	68	72	72	71	54	77	67	51	60	64	63	59	62	70	82	78	64.5	
	Minimum... 36	65	31	30	37	56	51	50	40	38	37	40	40	45	45	44	54	56	45	41	46	42	39	44	42	48	47	45	51	59	66	45.5	
Franklin.....	Maximum... 82	85	68	54	68	80	85	79	65	60	60	70	69	72	65	73	79	80	71	66	79	74	55	67	70	70	74	78	80	86	80	72.4	
	Minimum... 40	44	52	27	29	39	43	45	39	31	31	35	31	33	44	34	38	50	52	39	34	45	37	37	36	35	41	43	48	58	39.5		
Freeland.....	Maximum... 68	80	80	49	60	76	74	68	62	65	56	62	73	72	74	60	77	80	81	64	72	74	61	52	66	63	67	62	73	76	80	68.6	
	Minimum... 36	50	40	23	27	44	48	44	32	36	32	36	38	48	46	44	44	52	50	40	37	44	37	32	37	36	36	40	42	46	47	40.1	
Gettysburg.....	Maximum... 82	88	87	63	72	79	88	86	83	76	72	70	77	80	78	82	70	85	88	85	75	77	76	74	73	81	78	77	75	78	86	78.7	
	Minimum... 60	47	61	37	33	45	55	53	49	45	39	41	40	53	46	49	43	58	56	49	38	47	48	39	42	41	45	50	40	45	59	46.9	
Greensburg.....	Maximum... 84	88	82	57	67	81	87	84	73	63	66	71	72	74	65	74	81	82	76	67	79	76	65	73	73	69	74	76	80	86	80	75.1	
	Minimum... 53	58	47	30	34	51	47	50	48	40	35	39	46	50	48	45	44	57	54	44	39	56	41	39	40	42	41	46	49	53	62	46.1	
Grove City.....	Maximum... 77	85	81	50	62	80	82	75	61	61	68	70	73	62	72	78	81	71	61	61	76	75	61	65	68	66	71	74	76	78	80	71.6	
	Minimum... 46	49	42	28	31	50	40	46	44	33	31	38	32	39	49	48	42	54	54	40	48	56	38	39	36	41	41	45	48	54	54	43.1	
Hamburg.....	Maximum...
	Minimum...
Harrisburg.....	Maximum... 75	85	82	60	66	78	84	80	75	61	66	73	76	76	74	70	83	83	81	72	74	73	63	66	78	74	72	64	71	76	82	74.0	
	Minimum... 55	51	47	37	41	50	61	58	50	45	45	46	48	58	54	53	51	63	59	51	46	52	50	44	49	52	52	49	53	55	50.9		
Hawley.....	Maximum... 74	87	81	60	67	75	79	78	66	66	56	67	76	74	74	67	80	82	81	71	75	75	71	60	69	67	68	64	76	78	75	72.2	
	Minimum... 39	42	52	31	25	33	55	60	34	30	37	39	31	46	42	47	38	47	54	47	32	44	46	33	38	33	36	46	36	38	50	40.7	
Huntingdon.....	Maximum... 83	91	84	62	73	85	90	83	79	73	68	76	76	74	69	78	85	84	83	71	80	76	67	71	77	78	75	68	77	83	85	77.5	
	Minimum... 59	49	51	34	28	57	46	46	48	31	33	33	34	46	45	51	32	61	54	46	31	47	45	32	37	36	38	52	39	44	59	43.2	
Indiana.....	Maximum... 74	81	80	57	64	80	85	85	80	61	63	73	75	70	66	75	80	75	75	68	77	77	65	67	74	72	77	77	78	88	85	74.3	
	Minimum... 48	48	46	29	30	50	45	50	45	33	32	32	34	48	44	35	37	54	55	42	38	53	40	35	37	39	42	46	45	55	50	42.5	
Johnstown.....	Maximum... 86	90	76	60	73	85	90	85	76	64	68	72	74	74	67	76	84	83	78	70	83	76	60	72	73	69	79	76	81	89	86	76.6	
	Minimum... 56	53	44	32	33	53	49	51	52	40	37	40	40	51	49	50	42	49	54	46	37	50	42	40	42	43	41	45	44	49	64	45.7	
Lancaster.....	Maximum... 72	84	83	73	64	68	85	82	80	75	66	72	74	77	73	69	78	82	81	80	75	77	77	73	67	79	82	76	73	74	78	84	75.8
	Minimum... 48	43	55	37	29	34	49	4																									

VP

THE LIBRARY OF THE

AUG 3 1926

UNIVERSITY OF ILLINOIS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXI.

JUNE, 1926.

No. 6

GENERAL SUMMARY.

The month as a whole was abnormally cool and dry, the mean temperature being the lowest of any June since that of 1916. The conditions were good for building and construction work of all kinds, but were not wholly favorable for agriculture. The first of the month found most crops a little backward, due to the deficiency in both temperature and moisture for April and May. The cool dry June did not give them an opportunity to recuperate. The effect of the temperature deficiency was most noticeable in the corn and truck crops, while the deficiency in moisture was most apparent in the pastures and meadows. Corn had a fairly even stand on the ground, but was of uneven size owing to unfavorable conditions at the time of germination of the seed. It was in a healthy condition, but grew slowly. The first crop of alfalfa was harvested during the month, and was mostly fair to good as it is a deep rooting plant and did not suffer so much from the dry surface soil. Timothy and clover were mostly short and rather thin on the ground. In some places the timothy was little more than half a crop. The pastures furnished enough feed for stock, but did not build up the usual reserve that is needed to carry them through the hot summer months. Wheat developed in good condition, and was beginning to turn color at the end of the month. The heads were of fair to good size and the grains were plump, but much of the straw was short. Oats was heading well, mostly on short straw, and promised to be a fair crop. Potatoes were uneven in size and development, but otherwise were good. Excellent crops of berries were gathered, and orchard fruits promised to be the best for several years. The most severe local storm was a small tornado that formed near Paradise, in Lancaster County, and traveled about a mile south, doing damage estimated at more than \$100,000. A fine church in Pottstown was struck and fired by lightning and destroyed, entailing a loss of more than \$200,000.

TEMPERATURE.

The mean monthly temperature for the State as determined from the records of 82 stations was 64.1°, or 4.1° less than the June normal. The highest monthly mean was 68.4° at Hanover while the lowest was 56.2° at West Bingham. The highest temperature for the month, 94°, was recorded at four stations: Brookville, on the 13th, and Carlisle, Lancaster and Philadelphia-Point Breeze on the 14th. The lowest for the month, 23°, occurred at West Bingham on the 4th. The greatest daily range of temperature was 51°, at Montrose, on the 20th.

PRECIPITATION.

The average precipitation for the State, as deduced from the reports from 135 stations, was 3.63 inches, or a deficiency of 0.47 inch when compared with the State normal for June. The greatest monthly total was 6.56 inches at Cloe and the least was 1.20 inches at Pittsburgh. The greatest amount recorded in any 24 consecutive hours was 3.34 inches, at Cloe, on the 14-15th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total movement, in miles	Velocity, in miles per hour			
				8 a m	3 a m		Average	*Highest	Direction	Date
Erie.....	310.4	455.1	68	73	74	10,126	14.1	46	sw.	2
Harrisburg.....	267.7	448.9	60	68	58	4,849	6.7	33	sw.	7
Philadelphia.....	278.5	448.9	62	71	69	5,994	8.3	27	sw.	1
Pittsburgh.....	264.5	452.0	59	71	54	8,068	11.2	48	n.	6
Reading.....	281.0	448.9	62	71	68	2,778	3.9	27	sw.	8
Scranton.....	308.5	452.0	68	71	62	4,738	6.6	35	sw.	8

* For any five-minute period.

COMPARATIVE DATA FOR JUNE

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	68.4	100	30	3.04	6.90	1.08	.....	.....	.....
1889.....	66.7	95	33	5.43	10.04	2.71	.....	.....	.....
1890.....	70.1	97	33	3.42	5.74	1.30	12	11	7
1891.....	68.2	100	30	4.50	9.30	1.22	14	8	8
1892.....	71.8	99	40	5.64	10.55	1.83	9	11	10
1893.....	69.8	100	38	3.12	6.50	1.20	10	11	9
1894.....	69.6	102	30	2.57	5.31	0.61	13	12	5
1895.....	71.4	104	32	3.50	9.21	0.69	13	10	7
1896.....	67.4	98	32	4.64	9.11	1.89	10	11	9
1897.....	64.8	96	28	3.38	6.42	1.11	11	11	8
1898.....	69.6	100	33	2.79	6.96	0.56	14	11	5
1899.....	69.9	101	32	3.51	5.97	0.65	13	11	6
1900.....	69.9	97	35	3.60	10.29	1.35	11	12	7
1901.....	69.1	103	32	3.47	7.61	0.88	12	11	7
1902.....	66.0	97	32	5.97	8.93	3.35	11	12	7
1903.....	63.5	90	34	6.53	11.76	3.74	7	10	13
1904.....	67.9	96	32	4.06	6.67	1.62	12	10	8
1905.....	68.0	99	30	4.39	8.35	1.77	11	10	9
1906.....	69.3	97	28	5.43	10.29	1.40	11	12	7
1907.....	63.6	98	30	4.99	8.55	2.79	11	9	10
1908.....	68.8	102	28	2.36	4.61	0.58	19	9	2
1909.....	68.8	96	34	4.48	8.96	1.89	12	9	9
1910.....	65.4	95	32	4.31	8.68	1.33	12	8	10
1911.....	68.3	99	38	4.71	10.11	2.13	12	10	8
1912.....	65.6	96	29	3.36	8.58	0.79	13	9	8
1913.....	68.2	99	20	2.26	7.61	0.66	19	7	4
1914.....	68.6	101	25	3.71	7.05	1.17	16	8	6
1915.....	69.6	89	48	3.30	8.04	0.74	8	14	8
1916.....	63.7	89	28	6.14	12.45	2.83	11	10	9
1917.....	66.8	92	32	5.38	9.85	2.25	12	11	7
1918.....	66.0	98	29	3.42	2.65	0.44	13	11	6
1919.....	71.2	102	32	3.90	9.17	1.74	16	9	5
1920.....	67.0	99	32	4.97	8.37	2.23	12	11	7
1921.....	70.6	101	26	3.12	9.86	0.70	17	9	4
1922.....	69.5	96	30	5.11	12.46	1.78	11	11	8
1923.....	70.9	103	32	2.73	7.99	0.41	16	9	5
1924.....	65.8	98	26	5.57	9.75	2.23	11	11	8
1925.....	71.9	104	29	3.04	7.02	0.62	16	11	3
1926.....	64.1	94	23	3.63	6.56	1.20	13	10	7

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	2.5	3.1	3	2.1	21	18
Phillipsburg.....	Delaware.....	1.8	2.6	5	1.2	1	22
Mauch Chunk.....	Lehigh.....	3.8	4.3	3	3.6	1	12
Wilkes-Barre.....	Susquehanna.....	3.6	4.4	5	3.1	24	20
Williamsport.....	Susquehanna.....	2.4	8.1	16	0.9	1	20
Harrisburg.....	Susquehanna.....	3.9	5.1	18	3.6	1	17
Freeport.....	Allegheny.....	3.6	6.9	16	2.1	14	22
West Newton.....	Youghiogheny.....	1.1	3.4	15	0.4	1	20
Lock No. 4.....	Monongahela.....	13.9	15.0	15	13.1	1	31
Pittsburgh.....	Ohio.....	11.3	13.1	16	10.2	30	25
Beaver Dam.....	Ohio.....	8.1	9.6	16	7.1	30	30

Climatological Data for June, 1926

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	14	65.6	.....	88	29†	43	4	32	3.41	-0.03	0.95	0	12	15	12	3	ne.	John A. Frick.
Altoona	Blair	1,615	39	62.3	-3.9	86	14†	37	4	37	2.92	-1.00	0.60	0	14	18	5	7	w.	Lewis E. Biller.
Bethlehem	Northampton	295	42	67.0	-2.8	86	30	45	4	26	3.44	-0.73	1.16	0	8	16	3	11	w.	Lehigh University.
Biglerville	Adams	652	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. C. Walton.
Bustleton	Philadelphia	125	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Experiment Station.
Canton	Bradford	1,300	.....	63.2	.....	88	29	35	4	42	3.74	.....	1.30	0	13	8	14	8	sw.	Marble Laboratory, In
Carlisle	Cumberland	467	59	67.6	-3.3	94	14	41	21	43	2.50	-1.34	0.92	0	13	18	4	8	se.	Prof. C. E. Miller.
Catawissa	Columbia	520	29	64.2	-3.5	91	29†	37	4†	42	2.07	-1.82	0.54	0	12	19	6	5	.....	H. H. Yetter.
Center Hall	Center	1,272	30	61.6	-4.5	87	14	35	4	42	5.77	+1.77	1.85	0	11	17	7	6	.....	S. W. Smith.
Chambersburg	Franklin	580	26	66.3	-3.1	91	29	45	17†	40	1.86	-2.15	0.85	0	11	7	16	7	sw.	William B. Spear.
Clearfield	Clearfield	1,120	16	63.2	-4.1	88	13	33	4	44	5.25	+0.19	1.05	0	14	15	13	2	w.	E. W. Hess.
Coatesville	Chester	380	38	65.2	-4.7	90	14	38	20	37	4.30	+0.26	1.62	0	11	9	15	6	sw.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	16	64.0	.....	89	14	41	4	35	2.57	-1.52	1.07	0	10	17	1	12	sw.	Wm. A. Rorer.
Emporium	Cameron	1,050	38	61.1	-5.1	85	29	33	4	39	4.20	-0.33	1.80	0	11	14	13	3	w.	T. B. Lloyd.
Ephrata	Lancaster	380	25	65.8	-2.2	89	14	43	4	33	4.31	+0.09	1.27	0	12	9	8	13	w.	Ira J. Keath.
Freeland	Luzerne	1,970	11	59.8	.....	84	29	34	4	34	6.04	.....	1.53	0	16	7	13	10	nw.	Theo. Reichmann.
George School	Bucks	190	19	65.1	-2.6	90	14	40	21	36	3.73	+0.50	1.06	0	12	15	10	5	sw.	Prof. N. W. Swayne
Gettysburg	Adams	600	52	67.4	-2.2	93	29	44	20†	38	2.79	-1.11	0.72	0	15	10	12	8	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	22	61.8	-3.4	88	29	32	4	40	3.63	-0.77	0.86	0	15	13	9	8	w.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	2	58.2	.....	80	29†	33	20	40	5.75	+1.02	1.56	0	15	10	5	15	w.	Gustav Holtz.
Hamburg	Berks	535	33	63.8	-5.7	87	29	36	4	36	4.04	-0.18	1.40	0	10	12	13	5	w.	State Sanatorium.
Hanover	York	600	22	66.4	-2.2	93	14	42	8	43	2.65	-1.08	0.85	0	13	14	10	6	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	56	66.8	-3.5	89	29	48	4	28	2.14	-1.41	0.76	0	10	6	12	12	sw.	U. S. Weather Bureau.
Hawley	Wayne	900	7	61.3	.....	86	29†	33	20	44	3.86	.....	0.85	0	10	11	11	8	n.	J. S. Pennell.
Holtwood	Lancaster	200	11	66.6	.....	88	14	50	4†	29	2.24	.....	0.75	0	9	14	5	11	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	38	64.8	-3.4	90	29	37	4	44	4.05	-0.43	1.68	0	13	11	11	8	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	.....	64.8	-2.6	92	29	40	11	47	3.26	-2.06	0.90	0	12	6	6	18	.....	John S. Madore.
Lancaster	Lancaster	255	38	67.6	-2.5	94	14	40	5†	41	2.52	-1.47	0.60	0	9	17	10	3	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	28	62.2	-3.0	89	29	31	4	40	4.13	+0.24	0.90	0	12	11	13	6	.....	C. P. Darling.
Lebanon	Lebanon	469	85	65.8	-3.5	91	14	42	4	35	4.07	+0.01	2.19	0	10	12	11	7	sw.	S. B. Benzing.
Lewisburg	Union	450	51	65.9	-1.3	91	29†	38	4	39	3.38	-0.78	0.98	0	14	16	6	8	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	36	65.4	-4.0	89	30	35†	4	46†	2.36	-2.04	0.80	0	7	.....	.....	.....	.....	John P. Anthony.
Lykens	Dauphin	680	11	63.4	.....	93	24	32	4	45	2.64	.....	0.51	0	12	14	8	8	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	35	62.5	-5.3	87	30	35	4†	41	3.98	-0.32	0.98	0	12	14	9	7	w.	R. K. Wintermute.
Mifflintown	Juniata	445	22	65.9	-1.9	93	29	40	4	43	3.28	-1.08	0.71	0	14	13	8	9	nw.	Wellington Smith.
Montrose	Susquehanna	1,720	23	59.4	-3.3	89	20	30	4	51	2.32	-1.50	0.46	0	9	10	14	6	.....	Silas Jagger.
Mt. Pocono	Monroe	1,658	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	14	60.2	.....	84	29†	31	4	40	4.54	-0.56	0.71	0	11	16	9	5	w.	A. H. Boatman.
Narberth	Montgomery	300	7	66.0	.....	90	14	45	21	32	4.21	.....	1.55	0	14	11	8	11	ne.	Charles Decker.
Neshaminy Falls†	Bucks	60	37	64.0	-5.2	90	14	40	21	35	3.38	.....	0.80	0	14	17	5	8	w.	North Springfield Water Co.
Palmerton	Carbon	398	9	62.9	.....	89	30	36	3	36	2.11	.....	0.48	0	8	13	13	4	ne.	F. G. Breyer.
Philadelphia	Philadelphia	114	55	68.0	-3.4	90	14	52	17	26	2.81	-0.49	1.47	0	12	7	10	13	sw.	U. S. Weather Bureau.
Phila. Navy Yard	Philadelphia	12	10	66.4	.....	88	30	49	17†	29	3.94	.....	1.31	0	11	.....	.....	.....	.....	Commandant, Navy Yard.
Phila. Point Breeze	Philadelphia	90	1	68.2	.....	94	14	52	5†	29	2.40	.....	1.17	0	14	6	16	8	sw.	Atlantic Refining Co.
Philadelphia-Gtn.	Philadelphia	113	1	68.3	.....	91	14	50	4†	30	2.38	.....	0.85	0	12	11	11	8	.....	Julius Bernstein.
Phoenixville	Chester	100	15	66.8	.....	89	30	42	20	35	3.55	.....	1.24	0	8	19	9	2	sw.	North Springfield Water Co.
Quakertown	Bucks	496	41	64.3	-3.9	88	14	37	21	41	2.60	-1.06	0.83	0	12	14	10	6	sw.	John E. Benner.
Reading	Berks	325	56	66.5	-3.3	90	14	46	4	29	3.67	0.00	1.39	0	10	13	10	7	se	U. S. Weather Bureau.
Scranton	Lackawanna	805	31	62.5	-5.3	85	29	40	4	33	2.65	-0.92	0.68	0	12	3	12	15	nw.	U. S. Weather Bureau.
Sellingsgrove	Snyder	455	36	63.8	-5.2	89†	29	34†	4	39†	3.37	-0.88	0.60	0	13	11	12	7	sw.	Dr. George E. Fisher.
Shawmont†	Philadelphia	51	30	66.8	.....	85	29†	46	4	30	3.86	+0.39	1.19	0	10	11	9	10	nw	W. S. Guiles.
State College	Center	1,217	41	63.7	-2.8	87	29	37	4	31	4.69	+0.32	1.11	0	13	11	13	6	sw.	C. A. Kern.
Towanda	Bradford	754	31	61.2	-4.1	85	29	35	4†	35	2.88	-0.71	0.58	0	14	13	7	10	sw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	60	61.2	-3.3	88	29	29	4	41	2.99	-1.06	0.95	0	11	20	3	7	sw.	George W. Hill.
West Chester	Chester	455	88	65.8	-3.6	89	14	44	4	31	3.77	-0.42	0.98	0	13	14	9	7	sw.	Arthur M. Hay.
Williamsport	Lycoming	521	39	66.0	-2.5	90	29†	40	4	37	3.02	-0.88	0.94	0	16	17	3	10	nw.	George A. Beck.
York	York	400	38	66.2	-3.7	92	14	38	20	40	3.35	-0.13	1.05	0	12	11	14	5	ne.	York Water Co.
Ohio Drainage.																				
Beaver Dam†	Beaver	700	33	66.4	-3.9	90	13	40	4	37	3.86	-0.79	1.02	0	11	8	9	13	sw.	U. S. Engineer.
Bradford	McKean	1,427	11	60.4	.....	88†	29	30†	4	48†	5.34	.....	1.75	0	13	10	14	6	sw.	City Engineer.
Brookville	Jefferson	1,173	35	58.9	-4.6	94	13	29	4	45	5.05	+0.80	2.05	0	8	13	13	4	.....	John Fawcett.
Claysville	Washington	1,150	22	65.9	-2.3	91	14	37	6	42	3.25	-0.90	0.48	0	13	14	7	9	s.	J. L. Melvin.
Corry	Erie	1,430	14	60.8	.....	85	29	30	4	36	4.75	.....	1.44	0	17	11	15	4	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	29	65.0	-3.6	88	14	39	4	40	3.32	-1.53	0.53	0	12	18	5	7	w.	Ted R. Wineman.
Ebensburg	Cambria	2,000																		

Day of month

Continued on page 29

Daily Precipitation for June, 1926—Continued from page 28

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio Drainage.																																	
Beaver Dam|||	Ohio	.26	.06					.21					.03		.58	1.02			.87				.42			.07	.27	.07					3.86
Beaver Falls|||	Beaver	.07	.32	.28				.17	T	T.			.01		2.47	.37			1.20				.55			.06	.21	T.					5.71
Bradford	Allegheny	.86						.27	.04		.12		.45		1.75	.16	T.		.82				.35		.01	.03	.33				.15		5.34
Brookville	do	.40					.35	.30					T.		2.05	T.		.50				.95		T.	.15	.35						5.05	
Claysville	Ohio	.32		.07		.24		.32					.29		.34	.22			.24				.14		.32	.03	.48				T.		3.25
Cloet||	Allegheny	.14	.08		T	.11	.23					T.			3.15	.19		.53	.11			.60	.59	.22	.03	.54						6.56	
Clymer||	Conemaugh	.73	.02	.12		.14		.44	.06				.02	.10	.51	.72			.63				.33		*	.46							4.28
Confluence||	Youghiogheny	.07	.40			.40		.20	.20				.12	.22	.05	.40	.05		.08				.32			.15	.58						3.24
Coraopolis||	Ohio	.03	.17	.01		.04	T	.15	.02				.02	.01	.28	1.56			.05				.34			.13	.16	.48					3.45
Corry	Allegheny	.21	.02	T.			.03	.56	.12	T.		.01	.16		1.44	.40			.68	.01			.27	.05	.01	.22	.27			.29			4.75
Coudersport	do	.65					.25	.06					.50		.80	.55			.45				.78		.12	.54	.30			.25			5.25
Creekside	Allegheny	.70	.28			.08		.44					.05		1.07				.81				.31			.92							4.66
Derry	Conemaugh	.33	.15			.26		.32					.32	.06	.53	.36	T.		.30				.11		.10	.48	T.						3.32
Ebensburg	Conemaugh	.85	.18			.45		.40	.04					2.10		.38		.28				.08		.20		.48							5.44
Elk Lick	Youghiogheny	.98			.20	.38		.35					.19	1.14	.03	.85			.10				.38	.02	.01	.46				.35			5.44
Falls Creek	Allegheny	.46				.19	.26						.08		1.01	1.05			.44				.61		.18	.15	.47						4.90
Franklin|||	Allegheny	.30	.07				.30	.09	.17				.05	.12	.72	.46			.67				.37			.41	.35	.48			.06		4.62
Freeport||	Allegheny	.16	.10	.03		T.	.23	.03					.03	.03	.99	.54			.85				.31		.18	.26	.15						3.89
Greensburg	Youghiogheny	.28	T.			.38		.37	1			T.	.32	.10	.23	.08	T		*				.32		.79	T.	.46						3.33
Greenville	Beaver	.04				.34	.06				.24				1.35	.12		1.27				.21			.03	.33				.06			4.05
Grove City	Beaver	.34	.01			.28					.07	.22			1.44	.06			1.05				.47		1.27	T.	.64			T.			5.85
Herrs Isl. Dam|||	Ohio	.03	.23	T.		.11	.02	.09	.03				.12	.01	T.	.22	T.		.03				.11			.34	.07	.18			T.		1.59
Indiana	Conemaugh	.60	.02	.09		.13		.33	.02				.03	.01	.80	.68			.31				.18		.07	.51	.01						3.79
Ingram	Ohio	.12	.01			.15	T.	.18				.01	.01	.01	.28	.14	.01		T				.15		.01	T.	.56						1.64
Irwin	Youghiogheny	.30	.02			.20		.17	.01			T.	.05	.02		.19			.16				.03		.03		.31						1.49
Johnstown	Conemaugh	.46	.04	.03		.43	.02	.38		.08		T.	.18	.25	.07	.50			.26				.11		.02	.18							3.01
Kregar|||	Youghiogheny	.13	.40	.11		.26	.09	.24	.20				.01	.58	.44	.64	.04		.36				.19	.07	T.	.18	.09			T.			4.03
Linesville||	Beaver	.10	.07			.17	.24	.02					.06	.17	.91	.68			.81				.28		.02	.01	.31	.05					3.90
Lock No. 4|||	Monongahela	.11	.17	.05		.20	.02	.11	.10				.15	.07	.21	.36			.35				.13			.03	.15	.18					2.39
Lycippus	Conemaugh	.20	T.			.36		.67				T.	.33	1.55		.30			.67				.12		.27	T.	.90						5.37
Martin	Monongahela	.13	.64		.01	.45	.10	.11	.24				.05	.03	T.	.41			.16				.18	.01		.38	.20						3.10
Mount Lebanon	Ohio	.29	.10			.22		.22				T.	.05		.35				.02				.21		.20	T.	.32				T.		1.98
New Castle|||	Beaver	.10				.30	.04				.11	.01	1.12	.57			.79					.63	.01	.05	.05	.30	.40						4.48
Newell	Monongahela	.15	.01	.01		.32	.01	.10	.02				.12		.01	.25			.68				.12			.01	.22	.01					2.04
Parkers Landing|||	Allegheny	.10	.24			T.		.15	.07	T.			.08	T.	.78	1.27			.57				.58		.30	.10	.30	.20					4.74
Pennline|||	Beaver	.14	.08					.19	.15				.14	.04	1.18	.25			1.49				.96		.22	.01	.92	.19			.03		5.99
Pittsburgh***	Ohio	.15	T.			.10	.09	.04				T.	.04		.25	T.		.03	T		T.		.05	.05		.18	T.	.22					1.20
Ridgway||	Allegheny						.04								.03	.03	.43	T		.12							.04	.14					1.86
Saltsburg|||	Conemaugh	.08	.30	.40		.16		.07	.06					.03	.03	.43			.63				.23		.04	.10	.69	.10		.30			4.51
Saegertown|||	Allegheny	.41				.20	.08					.11		1.30	.32																		3.27
Sharon||	Beaver	.07	.04				.21						.05		.64	.31			1.20					.12	.20	.09	.31	.03					
Somerset	Youghiogheny																																
Springdale|||	Allegheny	.05	.45	.03		.17	.02	.09	.04		.01		.03	.05	.44	.23			.10				.09			.06	.08	.58					2.52
Uniontown	Monongahela	.97	T.		.08	.30	T.	.37					.10	.01		.44	.04		.23				.25		T	.09	.23			T.			3.11
Unity Reservoir||	Youghiogheny	.30				.35		.25					.15	.62	.06	.22			.32				.08		.04	.43							2.82
Vandergrift	Conemaugh	.25		.29			.27								1.30				.17				.16			.66							3.10
Warren	Allegheny	.42					.44	.15		.08			.32		1.60	.40			.92				.18			.32		.04		.04	.20		5.11
Washington	Ohio																																
Waynesburg|||	Monongahela																																
Westford|||	Beaver	.44	.14	T.			.19	.18				T.	.15	.90	.53			.84				.29		T		.32							3.98
West Newton|||	Youghiogheny	.14	.11	T.		.28	.11	.10	.09			T.	.21	.19	.30			.45				.10				.19	.22						2.49
Zellenople|||	Ohio	.22		.05				.20	.01				.05		.85	.41			1.52				.58			.04	.89	.14					4.46
Lake Drainage.																																	
Erie***	Lake Erie	.17				.33	.03				T	.09	T.	2.26	.24		.82					.48				.21	.21			.48			5.32
West Bingham	Genesee	.24	.01				.27	.02					.41	.01	.95	.46	.01		.50						.70	.18	.70						4.46

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station: precipitation is for 24-hour period, midnight to midnight.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Paupack Electric, Hawley; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink; of
Unity Reservoir, Greensburg. ‡ Mdt. to mdt.

Daily Temperatures for June, 1926

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Allentown.....	Maximum	69	82	63	61	59	66	68	78	77	80	81	75	83	87	83	63	71	80	71	75	79	78	65	83	85	80	77	82	88	88	75.9
	Minimum	60	59	55	43	51	49	53	48	56	63	52	57	59	60	66	51	48	54	57	44	47	59	61	57	53	60	55	52	57	66	55.2
Altoona.....	Maximum	75	77	63	59	58	67	69	76	72	75	79	80	82	86	71	61	68	78	70	73	76	75	75	76	79	78	70	80	86	82	73.9
	Minimum	62	53	46	37	45	41	47	45	48	48	47	58	61	61	57	53	50	54	48	42	47	60	49	50	47	56	47	44	49	67	50.7
Beaver Dam.....	Maximum	76	80	77	66	67	72	74	79	78	80	81	86	90	89	78	73	85	85	76	77	83	83	79	78	78	79	77	80	88	88	79.4
	Minimum	61	59	45	40	52	43	51	56	49	50	47	59	62	65	58	51	56	65	53	44	54	58	51	51	53	59	50	47	51	66	53.5
Bradford.....	Maximum	.....	80	70	73	72	67	70	.....	72	.....	78	83	75	66	71	72	74	69	78	.....	80	79	78	76	74	.....	88	85	85	75.2*	
	Minimum	.....	32	30	47	36	49	49	.....	42	.....	36	62	55	54	45	51	56	46	36	.....	44	39	43	46	55	.....	40	59	40	59	45.7*
Brookville.....	Maximum	74	78	57	68	62	72	68	74	71	76	81	78	94	78	67	67	74	78	70	76	81	76	78	80	75	77	72	79	87	82	75.0
	Minimum	51	42	35	29	41	35	45	42	39	37	36	57	57	55	47	43	52	48	41	35	41	45	39	41	44	46	40	36	43	41	42.8
Carlisle.....	Maximum	82	84	78	64	61	72	73	83	80	80	87	85	89	94	86	68	77	86	80	81	84	76	76	83	84	86	81	86	92	92	81.0
	Minimum	63	55	51	44	49	52	54	47	56	56	51	65	60	62	68	57	45	45	58	42	41	66	60	56	50	56	51	54	50	64	54.3
Catawissa.....	Maximum	85	82	64	64	62	68	73	79	78	84	82	70	86	84	81	69	73	81	73	79	80	78	74	87	86	82	78	84	91	91	78.4
	Minimum	61	53	49	37	44	50	48	45	48	46	44	53	58	49	63	52	39	56	51	37	46	65	50	51	49	49	48	48	54	58	50.1
Chambersburg.....	Maximum	78	83	77	60	57	69	70	81	79	83	85	78	87	88	81	67	71	85	82	77	80	78	73	80	81	82	77	82	91	90	78.4
	Minimum	65	57	51	46	49	51	53	48	47	48	46	62	59	64	66	57	45	56	59	45	48	66	59	58	50	58	53	47	51	62	54.2
Claysville.....	Maximum	76	79	67	63	62	73	71	79	78	81	82	83	88	91	84	73	89	84	78	82	84	84	82	81	81	78	76	85	88	88	79.7
	Minimum	64	61	41	41	41	37	49	50	45	46	47	60	65	66	57	55	54	64	51	42	56	59	51	48	53	58	43	43	51	64	52.1
Clearfield.....	Maximum	82	80	66	71	65	74	71	77	77	80	78	82	88	86	72	70	75	83	78	80	82	81	83	82	82	79	78	85	87	87	78.6
	Minimum	62	46	45	33	40	46	52	40	44	41	45	39	78	85	60	50	51	55	50	38	43	62	46	47	53	45	41	46	50	47.9	
Coatesville.....	Maximum	83	82	70	59	58	64	70	80	78	80	79	78	85	90	83	64	69	80	75	74	76	82	72	80	83	81	74	81	84	86	76.7
	Minimum	60	57	52	40	51	50	52	48	51	52	50	61	57	61	63	53	42	55	55	38	39	63	57	58	54	64	58	55	54	64	53.8
Corry.....	Maximum	73	73	58	65	67	70	69	69	69	71	77	70	77	80	76	69	74	73	67	72	80	78	77	77	71	74	67	77	85	82	72.9
	Minimum	61	53	40	30	42	39	48	51	48	46	41	58	61	55	50	45	51	57	45	36	50	55	44	45	51	54	44	43	61	54	48.6
Emporium.....	Maximum	74	84	58	68	67	71	68	73	72	76	78	74	82	76	69	67	70	78	67	72	79	75	77	78	75	78	73	78	85	80	74.1
	Minimum	58	53	42	33	45	43	50	45	49	45	39	59	62	55	60	48	53	52	48	37	42	58	44	46	39	50	46	42	48	52	48.1
Erle.....	Maximum	73	68	54	62	66	68	73	68	69	69	73	76	74	84	62	71	79	68	61	63	83	72	76	74	77	72	70	75	86	74	71.3
	Minimum	59	48	44	43	50	49	52	58	54	56	53	62	60	57	50	53	56	58	50	47	56	58	57	56	59	57	52	58	65	62	54.6
Franklin.....	Maximum	74	78	58	69	64	69	70	75	73	75	80	80	83	80	62	71	77	77	70	78	83	75	78	75	75	76	73	78	86	80	74.7
	Minimum	65	55	41	33	42	39	49	51	43	43	43	51	57	59	58	46	49	56	47	38	48	57	46	46	50	52	44	42	51	53	48.5
Freeland.....	Maximum	74	75	56	62	58	66	64	72	70	73	75	68	76	80	76	66	66	77	68	72	73	71	66	80	80	78	72	76	84	80	71.8
	Minimum	59	52	42	34	40	44	46	42	47	46	46	54	52	56	50	44	42	48	44	38	44	54	52	48	49	50	48	46	53	60	47.7
Gettysburg.....	Maximum	83	83	78	67	60	70	75	85	81	83	87	79	88	92	85	71	75	86	85	78	82	78	77	82	83	84	82	83	93	90	80.8
	Minimum	64	68	55	46	46	49	50	49	49	52	51	62	57	64	66	56	45	55	57	44	44	65	61	51	51	49	52	49	58	58	54.1
Greensburg.....	Maximum	75	88	74	63	59	73	70	76	74	77	82	80	84	89	83	72	79	78	80	85	80	79	80	77	79	73	81	87	85	87	78.0
	Minimum	64	57	46	41	48	40	49	53	49	51	46	61	66	66	57	54	53	64	53	64	52	44	57	61	52	51	50	58	48	44	53.3
Grove City.....	Maximum	73	75	70	64	74	67	70	72	70	74	80	78	81	88	76	69	77	73	66	71	80	77	76	70	73	75	70	75	83	82	74.3
	Minimum	64	59	41	34	51	44	49	53	47	46	45	58	57	65	54	46	52	63	54	42	55	57	48	56	54	56	45	50	55	67	52.2
Hamburg.....	Maximum	78	80	74	61	62	67	66	76	78	76	78	76	80	86	80	67	68	78	77	78	79	75	74	80	79	83	84	80	89	87	76.4
	Minimum	56	54	52	36	42	48	49	44	46	46	47	53	59	57	66	53	44	57	42	43	46	64	55	52	49	50	63	48	51	60	51.1
Harrisburg.....	Maximum	78	81	64	58	60	66	70	80	77	86	81	76	87	88	82	64	70	84	77	75	70	73	77	75	70	76	82	80	89	88	76.0
	Minimum	64	60	55	48	51	53	54	53	59	57	60	62	60	66	62	56	51	58	55	48	53	66	60	57	55	60	59	58	61	69	57.7
Hawley.....	Maximum	75	80	77	68	68	69	66	76	76	76	70	75	75	66	71	79	77	76	76	72	81	85	79	75	81	86	86	81	86	86	75.6
	Minimum	58	48	46	35	41	41	50	44	48	43	39	39	54	47	61	48	40	53	47	33	38	60	47	49	46	52	49	43	48	64	47.0
Huntingdon.....	Maximum	80	82	70	66	60	71	71	79	76	80	84	81	88	86	74	67	72	84	74	75	80	80	78	81	82	80	76	83	90	88	77.9
	Minimum	67	54	51	37	47	48	52	43	48	42	42	61	63	61	62	57	49	56	53	43	44	65	47	53	51	54	49	44	46	65	51.8
Indiana.....	Maximum	72	76	70	62	61	74	72	75	75	76	79	82	85	88	84	66	76	77	75	80	82	82	78	78	76	78	82	88	87	87	77.1
	Minimum	64	55	45	36	47	40	38	49	47	46	42	50	60	62	55	51	51	59	50	46	55	60	49	48	52	56	45	42	60	64	50.8
Johnstown.....	Maximum	77	82	60	62	57	76	74	81	71	78	83	84	87	91	75	68	75	81	76	81	83	79	79	83	83	81	75	87	93	88	78.3
	Minimum	63	57	48	42	49	45	50	51	52	48	45	60	65	64	58	56	54	59	54	45	49	62	53	52	50	58	52	46	50	68	53.5
Lancaster.....	Maximum	83	87	82	76	74	68	73	84	86	86	84	85	89	94	89	83	77	83	85	81	79	87	83	80	85	80	82	83	88	91	

1NP

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

LIBRARY OF THE
UNIVERSITY OF ILLINOIS

AUG 31 1926

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

Vol. XXXI. JULY, 1926. No. 7

GENERAL SUMMARY.

The rainfall was above the normal generally in the central and southeastern counties, and was very heavy in some places. It was generally below the normal in the remainder of the State, and the deficiency aggravated a mild drought condition that had developed during the month of June. Short periods of intense heat centered on the 10th and 22d respectively, while it was unseasonably cold from the 14th to the 16th inclusive. During the remainder of the month the conditions were mostly seasonable. Crops were generally backward at the beginning of the month, being from ten days to two weeks late. They made some gains in the regions of heavy rainfall, but continued backward elsewhere, and in the driest localities their condition became gradually worse instead of better. Wheat harvest began in the southeastern counties about one week late, but the crop as a whole was good to excellent. Considerable threshing was done from the shock, and yields as high as 35 bushels to the acre were reported, while the quality of the grain was excellent. Pastures and meadows improved in the central and southeastern portions of the State, and slowly deteriorated elsewhere. Oats developed good heads on mostly short straw. The crop as a whole promised yields a little below the normal, but the quality of the grain was good. Orchard fruits were the best for many years. Early varieties of potatoes were generally a light crop, but the late crop was mostly good. Tobacco was good, and generally near a normal crop. It was considerably damaged in some places by hail. There seemed to be more than the usual damage by wind, hail, and lightning during the month. Thunderstorms were especially severe in the central and southeastern counties, and several deaths by lightning were reported. Many buildings and trees were damaged or destroyed by lightning.

TEMPERATURE.

The mean temperature for the State as deduced from the records of 84 stations was 71.8°, which is 0.1° less than the State normal for July. The highest monthly mean was 75.9°, at Philadelphia-Point Breeze, while the lowest, 62.3° was recorded at West Bingham. The absolute maximum for the month, 105°, was registered at Gettysburg on the 21st, and the lowest temperature for the month, 35°, occurred at West Bingham on the 12th and 26th. The greatest daily range in temperature was 47°, at Lock Haven, on the 12th.

PRECIPITATION.

The average precipitation for the State, as computed from observations made at 139 well-distributed stations, was 3.82 inches, or a deficiency of 0.53 inch as compared with the July normal rainfall. The greatest monthly total was 10.63 inches at Philadelphia-Point Breeze and the least, 1.14 inches, was reported from South Sterling. The greatest amount recorded in any 24 consecutive hours was 4.99 inches at Philadelphia-Point Breeze on the 4th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total movement, in miles	Velocity, in miles per hour		
				8 a m	8 a m		Average	Highest	Direction
Erie.....	315.0	461.4	68	65	65	8,544	11.5	38	sw.
Harrisburg.....	261.4	455.2	57	68	60	4,444	6.0	32	sw.
Philadelphia.....	284.3	455.2	62	80	73	5,750	7.7	34	ne.
Pittsburgh.....	268.4	458.3	60	68	58	7,162	9.6	34	sw.
Reading.....	275.4	456.2	60	72	72	3,973	5.3	27	nw.
Scranton.....	320.3	458.3	70	70	61	4,349	5.9	29	nw.

* For any five-minute period.

COMPARATIVE DATA FOR JULY

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	69.2	97	38	3.45	7.10	1.40	.....	.....	.....
1889.....	71.6	96	39	6.80	15.02	1.04	.....	.....	.....
1890.....	70.7	101	33	3.52	6.40	0.70	13	11	7
1891.....	67.8	97	34	6.32	11.61	2.63	11	10	10
1892.....	73.1	103	38	3.93	8.59	2.15	15	11	5
1893.....	72.1	102	36	3.15	6.27	1.58	15	12	4
1894.....	73.8	103	31	2.32	5.96	0.53	15	11	5
1895.....	69.1	102	34	3.24	6.18	1.16	12	12	7
1896.....	72.8	98	40	6.89	15.59	3.04	10	11	10
1897.....	73.4	103	41	6.26	14.51	2.10	10	11	10
1898.....	74.8	107	33	3.36	6.29	1.15	12	12	7
1899.....	72.3	101	35	3.91	8.24	1.53	12	11	8
1900.....	74.0	104	35	4.86	8.26	1.81	14	12	5
1901.....	76.4	107	45	3.88	7.34	1.52	10	13	8
1902.....	71.8	99	41	6.04	12.35	2.11	10	12	9
1903.....	71.2	98	35	5.36	8.81	1.76	13	12	6
1904.....	70.6	99	34	4.68	9.19	1.92	12	11	8
1905.....	72.6	99	39	4.87	9.78	2.49	10	12	9
1906.....	71.3	95	38	4.31	8.98	1.41	12	13	6
1907.....	71.5	96	34	3.84	9.46	1.01	15	12	4
1908.....	73.9	104	39	4.81	9.57	2.15	14	12	5
1909.....	69.7	98	34	2.14	4.50	0.75	16	11	4
1910.....	72.8	99	41	2.42	5.15	0.45	16	11	4
1911.....	73.7	105	36	2.81	7.41	0.90	16	11	4
1912.....	71.3	100	36	5.29	12.65	1.04	12	11	8
1913.....	71.8	101	40	4.16	8.00	0.82	15	10	6
1914.....	71.3	101	38	4.19	10.29	1.10	12	11	8
1915.....	70.7	98	40	5.28	12.30	1.82	10	13	8
1916.....	74.3	98	41	4.45	12.41	0.39	14	10	7
1917.....	72.1	105	40	4.33	9.76	1.90	12	12	7
1918.....	70.1	99	35	3.05	9.96	0.77	16	10	5
1919.....	72.6	104	34	5.90	14.58	1.70	16	8	7
1920.....	69.5	96	33	4.37	10.70	1.27	15	10	6
1921.....	75.9	104	45	4.13	9.19	1.23	19	9	3
1922.....	71.9	98	38	3.68	7.58	1.45	14	10	7
1923.....	71.0	100	32	4.24	9.86	0.92	15	9	7
1924.....	69.7	97	34	3.42	7.12	0.71	17	10	4
1925.....	70.5	101	32	5.57	14.95	1.54	13	11	7
1926.....	71.8	105	35	3.82	10.63	1.14	15	9	7

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date		Lowest stage	Date		Flood stage
Port Jervis.....	Delaware.....	1.8	2.8	31	1.5	13	18		
Phillipsburg.....	Delaware.....	0.5	1.4	1	0.3	27	22		
Mauch Chunk.....	Lehigh.....	3.4	3.9	7	3.3	12	12		
Wilkes-Barre.....	Susquehanna.....	2.6	3.3	1	2.1	28	20		
Williamsport.....	Susquehanna.....	1.1	2.1	7	0.4	31	20		
Harrisburg.....	Susquehanna.....	3.4	3.8	9	3.3	23	17		
Freepoint.....	Allegheny.....	2.1	3.0	8	1.5	26	22		
West Newton.....	Youghiogheny.....	0.9	2.9	25	0.4	2	20		
Lock No. 4.....	Monongahela.....	13.6	17.2	8	12.7	5	31		
Pittsburgh.....	Ohio.....	10.6	12.3	9	10.1	25	25		
Beaver Dam.....	Ohio.....	7.6	8.7	9	6.9	23	30		

Climatological Data for July, 1926

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation .01 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	14	74.0		101	22	51	12	33	7.04	+1.99	2.76	0	14	16	13	2	ne.	John A. Frick.
Altoona	Blair	1,615	39	69.9	-1.2	97	22	46	12	37	3.80	+0.53	1.36	0	8	14	12	5	w.	Lewis E. Biller.
Bethlehem	Northampton	295	42			98	21				5.39	+0.83	3.26	0	11	20	5	6	sw.	Lehigh University.
Biglerville	Adams	652	4																	R. C. Walton.
Bustleton	Philadelphia	125	7	74.1		101	22	52	12	35	6.73		1.62	0	14	13	9	9	sw.	Experiment Station.
Canton	Bradford	1,300		70.6		96	21	44	15	36	2.47		0.89	0	9	11	16	4	sw.	Marble Laboratory, Inc.
Carlisle	Cumberland	467	59	75.1	+0.3	103	22	47	12	43	3.55	-0.31	1.52	0	12	18	4	9	s.	Prof. C. E. Miller.
Catawissa	Columbia	520	29	72.8	+0.1	104	22	44	12	44	2.03	-1.74	1.05	0	10	19	11	1		H. H. Yetter.
Center Hall	Center	1,272	30	72.7	+1.3	98	21	49	44	40	3.88	-0.01	1.68	0	8	20	6	5		S. W. Smith.
Chambersburg	Franklin	580	26	74.2	-0.5	104	22	46	12	39	3.03	-0.25	0.97	0	10	12	8	11	sw.	William B. Spear.
Clearfield	Clearfield	1,120	16	71.6	+0.1	100	21	40	12	45	3.20	-0.80	1.72	0	10	17	9	5	w.	E. W. Hess.
Coatesville	Chester	380	38	73.2	-1.5	98	22	49	12	33	6.29	+1.27	1.76	0	14	12	12	7	ne.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	16	72.1	-0.4	98	22	47	12	34	6.23	+1.56	1.38	0	14	16	4	11	sw.	Wm. A. Rorer.
Emporium	Cameron	1,050	38	67.8	-2.4	93	21	44	124	36	2.94	-1.50	1.17	0	5	16	9	6	w.	T. B. Lloyd.
Ephrata	Lancaster	380	25	74.0	0.0	98	22	49	12	32	4.57	+0.03	0.80	0	15	16	5	10	sw.	Ira J. Keath.
Freeland	Luzerne	1,970	11	68.8		97	22	46	12	31	2.81		1.21	0	12	12	10	9	nw.	Theo. Reichmann.
George School	Bucks	190	19	73.7	+0.1	100	22	49	12	35	5.34	+0.96	1.94	0	15	19	6	6	s.	Prof. N. W. Swayne
Gettysburg	Adams	600	52	75.8	+1.8	105	21	49	12	37	3.49	-0.13	1.12	0	10	14	7	10	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	22	70.2	0.0	96	214	41	12	40	2.92	-2.32	0.90	0	13	18	4	9	e.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	2	65.5		44	22	38	13	40	1.88	-3.79	0.60	0	10	18	9	4	w.	Gustav Holtz.
Hamburg	Berks	535	33	73.2	-1.7	99	22	46	12	37	6.50	-1.79	3.94	0	12	17	9	5	w.	State Sanatorium.
Hanover	York	600	22	75.8	+0.4	102	214	52	12	33	3.74	-0.73	0.78	0	12	18	7	6	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	56	75.0	+0.2	101	22	56	14	30	3.94	+0.07	1.23	0	14	10	8	13	ne.	U. S. Weather Bureau.
Hawley	Wayne	900	7	70.2		100	22	40	12	42	2.04		0.90	0	8	17	7	7	nw.	J. S. Pennell.
Holtwood	Lancaster	200	11	74.5		99a	214	55b	12	29	4.32	-0.18	1.00	0	15	14	7	10		H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	38	72.0	-0.2	104	22	44	12	45	2.77	-1.02	0.77	0	11	12	8	11	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977		73.1	+1.1	103	22	42	12	41	2.86	-0.25	1.09	0	8	8	9	14		John S. Madore.
Lancaster	Lancaster	255	38	75.2	+1.8	102	22	47	12	41	6.44	+2.52	1.83	0	12	18	6	7	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	28	69.0	-1.2	96	21	40	15	40	2.68	-1.62	0.87	0	7	19	7	5		C. P. Darling.
Lebanon	Lebanon	469	85	73.8	+0.2	102	22	48	12	35	7.89	+3.62	3.97	0	15	16	7	8	e.	S. B. Benzing.
Lewisburg	Union	450	51	73.8	+2.3	102	214	46	12	41	3.40	-0.57	1.48	0	13	15	10	6	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	36	69.3	-4.0	98	21	39	12	47	9.04	+5.04	4.40	0	11	11	11	9	w.	John P. Anthony.
Lykens	Dauphin	680	11	71.4	-0.4	101	214	41	12	46	8.29	+3.40	3.65	0	15	18	4	9	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	35	72.2	-0.1	102	22	44	12	41	3.72	-1.38	1.42	0	12	18	4	9	w.	R. K. Wintermute.
Millintown	Juniata	445	22	73.3	+0.6	102	22	46	12	41	4.57	+0.46	1.29	0	11	16	4	11	w.	Wellington Smith.
Montrose	Susquehanna	1,720	23	68.2	0.0	93	22	44	12	32	4.37	+0.11	1.52	0	6	11	16	4	s.	Silas Jagger.
Mt. Pocono	Monroe	1,658	23	66.1	-0.1	89	104	42	12	35	4.00	-1.16	1.45	0	8	16	8	7	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	14	67.8	-1.9	94	214	39	12	39	3.56	-1.41	1.34	0	8	18	12	1	w.	A. H. Boatman.
Narberth	Montgomery	300	7	73.3		99	22	52	12	30	8.33		3.01	0	15	13	11	7	ne.	Charles Decker.
Neshaminy Falls	Bucks	60	37	72.6	-0.5	102	22	52	12	35	7.08		1.57	0	16	17	4	10	s.	North Springfield Water Co.
Palmerston	Carbon	398	9	73.2		100	214	50	1	37	4.11		1.55	0	10	13	14	4	ne.	F. G. Breyer.
Philadelphia	Philadelphia	114	55	75.7	-0.5	100	22	57	15	29	8.40	+4.07	3.18	0	14	10	9	12	sw.	U. S. Weather Bureau.
Philadelphia-Gtn	Philadelphia	113	1	75.6		101	22	57	154	30	8.00		1.72	0	15	14	10	7		Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	10	75.4		100	22	58	15	28	10.49		4.65	0	15					Commandant, Navy Yard.
Phila. Point Breeze	Philadelphia	90	1	75.9		102	22	58	154	29	10.63		4.99	0	15	11	11	9	e.	Atlantic Refining Co.
Phoenixville	Chester	100	15	74.7	+0.2	104	224	50	3	44	5.44	+0.40	1.70	0	13	15	14	2	s.	North Springfield Water Co.
Quakertown	Bucks	496	41	72.8	+0.3	100	22	45	12	39	6.22	+1.40	2.72	0	16	14	10	7	nw	John E. Benner.
Reading	Berks	325	56	75.2	-0.3	102	21	54	12	29	5.73	+1.51	2.08	0	15	12	12	7	sw.	U. S. Weather Bureau.
Scranton	Lackawanna	805	31	71.4	-0.3	98	22	46	12	33	2.47	-1.36	1.35	0	12	7	9	15	nw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	36	72.6	-0.9	100	22	46	12	39	3.24	-1.14	1.05	0	12	16	6	9	w.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	30	75.8		99	224	55	12	28	5.95	+1.36	1.18	0	12	15	7	9	sw.	W. S. Guiles.
State College	Center	1,217	11	71.0	+0.4	97	22	47	124	39	3.50	-0.28	1.28	0	12	11	13	7	sw.	C. A. Kern.
Towanda	Bradford	754	31	69.5	-1.1	97	22	40	12	41	3.40	-0.67	1.00	0	9	19	8	4	s.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	60	68.8	-0.1	95	21	38	12	42	2.38	-1.62	0.83	0	6	23	4	4	sw.	George W. Hill.
West Chester	Chester	455	88	73.5	-0.8	100	22	52	12	31	6.70	+1.87	1.49	0	16	14	11	6	sw.	Arthur M. Hay.
Williamsport	Lycoming	521	39	73.6	+0.5	100	214	43	12	37	2.98	-0.98	1.24	0	5	18	7	6	nw.	George A. Beck.
York	York	400	38	74.5	+0.1	102	21	47	12	37	3.83	-0.66	1.04	0	11	14	12	5	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	33	72.9	-1.0	100	21	48	14	37	2.58	-1.29	0.74	0	10	15	9	7	sw.	U. S. Engineer.
Bradford	McKean	1,427	11	68.8b		95b	21	40b	124	42b	2.20		0.76	0	7	15	10	6	s.	City Engineer.
Brookville	Jefferson	1,173	35	66.0	-2.4	96	21	38	12	43	1.49	-3.07	0.45	0	5	21	7	3		John Fawcett.
Claysville	Washington	1,150	22	73.4	-0.7	100	21	43	15	45	2.26	-2.06	0.63	0	9	20	4	7	nw.	J. L. Melvin.
Corry	Erie	1,430	14	68.2	+1.0	92	20	38	14	37	1.47	-1.86	0.63	0	9	16	12	3		Nevin R. Dickson.
Derry	Westmoreland	1,172	29	72.5	-0.8	98	21	45	14	42	1.47	-3.36	0.50	0	9	20	3	8	w.	Ted R. Wineman.
Ebensburg	Cambria	2,000	8	66.8		96														

Daily Precipitation for July, 1926

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown	Lehigh				.02	.45	.02				.27			.12	T.	.80			.41	.01	.10		.05	.19	1.75				.09	2.76		7.04	
Altoona	Juniata			.16	.30	.70					.74	.34		.14					T.	.06			1.36									3.80	
Ansonia	W. Br. Susq.		T.				T.				.16	T.	.43	.58					.32	.35			.43					.06	.03			2.36	
Baker's Summit	Juniata			.50	.57	.02					.18			1.04								.31	.48	.03					.60			3.73	
Bethlehem	Lehigh			.01	.06	.39					.42			.06					.37				.04	.19	.25				.34	3.26		5.39	
Biglerville	Susquehanna																																
Bloersville	Lower Susq.	.16	.06	.20	.35	.38								.32					.15	.75			.18	.20					.23	.23		3.21	
Bustleton	Lower Del.	.01	T.		.06	.14				*	1.14			1.16	1.62	.16			.01	.15	.03					1.08			.16	1.01		6.73	
Canton	N. Br. Susq.				.45						.03			.89	.03				.13			.60	.01						.20			2.47	
Carlisle	Lower Susq.		T.	.20	.24	.32					.32			.08	T.				.04			.35	T.	.84	.68		T.		.14	.03	.31	3.55	
Catawissa	N. Br. Susq.				.93	.12					.02			T.	.03							.43	.37	.06				.01	.04	.02		2.03	
Center Hall	Susquehanna			.29	1.68					.65				.22								.30		.24					.46	.04		3.88	
Chambersburg	Potomac		.01	.35	.86	.41					.07			.11		T.								.97	T.			.04	.15		.06	3.03	
Clearfield	W. Br. Susq.			.15	T.	.33				T.		.10		.20	.10				T.		.09		.82	.90				.10	.41			3.20	
Coatesville	Lower Del.			.62	.10	.41					T.	T.		.49	1.76	.20			.34		.18		.07	.27	.48				1.26	.02	.09	6.29	
Colebrook	Lower Susq.		T.	.10	.38	1.08					T.			.15	.37	.02			.75	.66			.01	.17	1.38				.63	.11	.42	6.23	
Conshohocken	Schuylkill		T.	.15	T.		.13				.50			.08	.23	.69	1.25		.48	.04			T.	.48	.76			T.		.68	T.	5.47	
Cresson	Juniata			.12	.45	.59					.92			.14					.02			.50	.43	.53								3.70	
Doylestown	Lower Del.		T.	.78	.07	.17	.02				.28			.46	1.20	.18			.07		.02		.04	1.44	.14				.17	.52		5.57	
Driftwood	W. Br. Susq.		T.		.76		.30				.03			.30	.54						.04		.60	.02				.04	.08			2.71	
Emporium	do.		T.			.43				T.	.23			1.17					T.		T.		1.00	T.			T.	.11				2.94	
Ephrata	Lower Susq.			.05	.24	.80								.10	.46	.23			.05	.06	.74		.10	.64	.30				.23	.50	.07	4.57	
Forest City	N. Br. Susq.		.19				.02	.27			.11				.60	.07			.47			.98	.04	.80				.48	3.80			7.03	
Freeland	Lehigh		T.			1.21	.05				.25			.28		.15			.15	.09	.04		.33	.08			T.		.08	.10		2.81	
George School	Lower Del.		.01	.10	.12	.24	.01				.06			1.22	.72	.69			.08	.02	T.			.26	.28				.11	.42	T.	5.34	
Gettysburg	Potomac			.30	.15	.12								.23		.03				.33	.12		.30	.55	.31				.08			3.49	
Girardville	Susquehanna			.02	.73	.23					.44			.23	.05	.07	.03		.28	.22		.13	.04				.05	.19		.01		2.89	
Gordon	Lower Susq.		.01	.19	.90						.38			.05		T.	.13		.33		.50		.12	.13	.01				.16	.01	T.	2.92	
Gouldsboro	Lehigh			.02			.21						.10		.16	.02	.08				.45		.60						.12	.12		1.88	
Graterford	Schuylkill			.18	.21	.30								.24	1.14	.38			.42	1.32	.04		.26	.74	1.38				.34			6.95	
Hamburg	Schuylkill			.41	.24						.13			.06	.09	.17			.88	.19			.17		.22				2.41	1.53		6.50	
Hamlin	Upper Del.			.15							.05			.50		.12			.25			.80						.32	.05			2.24	
Hanover	Lower Susq.			.06	.20	.78								.07	.18	.17			.51	.77		.12	.72	.05				.11			3.74		
Harrisburg	do.		.08	.03	.31	.40				T.			T.	.03	.06	.05			.14	.40		T.	.20	1.09			T.	.02	.28		.85	3.94	
Harrisburg East	do.		T.	.14	.25	.42					.01			.06		.11			.18		.39		.02	.28	1.00				.16	.01	T.	3.26	
Harrisburg North	do.		.10	.06	.20	.41					.14			.04	.01	.15			.16	.38	T.			.18	.77			.04	.83	.21		3.68	
Hawley	Upper Del.		T.	.09		.04					T.			.15		.07			.26			.90			.08				.35	.18		2.04	
Holtwood	Lower Susq.		.30	.11	.30	.06					.16			.06	.08	1.00			.53	.35	T.		.07	.15	.08			.08	.04	1.03		4.32	
Huntingdon	Juniata			.18	.14	.54					.27	.10		.03	.16					.05		.77					.03	.50		T.		2.77	
Hyndman	Potomac		T.	.74	.39	.23	.10				.06			.20						T.			T.	1.09	.05							2.86	
Lancaster	Lower Susq.			.09	.22	.19	.33							.18	.85				1.83		.72		.07	1.25	.35			.36				6.44	
Lansford	Lehigh					1.15					1.08			.06		.13				.36	.05		* 1.17	.03				.11	.07			4.21	
Lawrenceville	N. Br. Susq.			.16	.52	.63					.12			.87					.05		.32		.68	T.				.32	.32			2.68	
Lebanon	Lower Susq.		T.	T.	.04	.35	1.48	.01			T.	T.		.03	.02	.26			.03	.45		.03	.08	.47			T.	.16	3.81		1.12	7.89	
Lewisburg	W. Br. Susq.													.21	.26	.03	.03		.15	T.	.40		.15	.07					.22			3.40	
Lloyd	do.										.61			.06		.03				.31		.62	.41			.06						2.01	
Lock Haven	do.		.01	.02	2.53				.09		.06			4.40	.18				.20		.22		.56	.73					.10			9.04	
Lykens	Susquehanna		.06	1.84	3.65	.03				.06	.04			.08	T.	.17			.10		.49		.27	.20	.33				.82	.15		8.29	
Mauch Chunk	Lehigh			.21	1.00					.65				.01	.08	.03	.06		.05		.09		1.12	.30					.12			3.72	
Mifflintown	Juniata			.04	.54	.75					.10			.17	.32						.90		.32	.37					.48	.58		4.57	
Montrose	N. Br. Susq.						.16							.79					.88		.72		.30					1.52				4.37	
Morris Run	N. Br. Susq.				.07									1.29	.04				.20		.10		.44	.40								2.54	
Mt. Pocono	Upper Del.				.43					.43					.46	T.			.40		.10		1.45	.43				.30	T.			4.00	
Mount Union	Juniata		T.	*	* 1.30						.54			.94					T.		T.		.16	.70	.03								

Daily Precipitation for July, 1926—Continued from page 33

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio.....			.02	.03	.19	.03	.71				.09		.47									.66						.32	.06			2.58	
Beaver Falls|||	Beaver.....	T.	T.	.01	.22		.09				.68		.07	.42									.25						.15	.04			1.93	
Bradford.....	Allegheny.....					.33				.10	.14	T.	.76	T.				T.					.10					*	.77				2.20	
Brookville.....	do.....				.20	.35							.45									.20						T.	.29				1.49	
Claysville.....	Ohio.....			.63		.61	.02				T.	.08		.05	.45								.15						.11	.16			2.26	
Cloeff.....	Allegheny.....			.10	.60						.19		T.	.45									.35	1.05					.70				3.44	
Clymer††.....	Conemaugh.....			.26	.02	1.09					T.	.16		.22	.17				.03				.64	.91					.06	1.16			4.72	
Confluence|||	Youghiogheny.....				1.02	.58	.46					.50			.16				1.30				.15	.73					.51	.01			4.90	
Coraopolis|||	Ohio.....		T.	T.	.18	T.	.07					.55			.70								.63	.02					.29				2.67	
Corry.....	Allegheny.....		.01			.02				.04	.39		.01	.36						T.			.01						.01	.62			1.47	
Coudersport.....	do.....										.36			1.33	*							.45	*	1.88				*	2.19				2.31	
Creekside.....	Allegheny.....			.45		.84					.34				.38				.12														6.20	
Derry.....	Conemaugh.....			.08	.07	.16				.22	.28		.05	.11														T.				.36	1.47	
Ebensburg.....	Conemaugh.....			.36	.69					.15	.53		.05					.05				.80	.20										2.83	
Elk Lick.....	Youghiogheny.....			.93	.61	.37				.44	.37		.12	.07				1.25				.12	.40						.26				4.71	
Falls Creek.....	Allegheny.....			.11		1.00					.10			.98				.06				.31	.42						.51	.30			3.24	
Franklin|||	Allegheny.....			.03			.12				.47		.80	.37								.10							.61	.30			2.70	
Freeport|||	Allegheny.....		T.	.27	.30	1.23					.67		.01	.61						T.			.70	T.					.03	.13			3.95	
Greensburg.....	Youghiogheny.....					.22				T.	T.	.13		.19	.18				T.				.01	.01					.14	.90	.14		.53	2.45
Greenville.....	Beaver.....		.02							.11	.50			1.85															.11	.61			3.10	
Grove City.....	Beaver.....	T.				T.				.05	.06		.04	1.57	T.							.12	.05						.08	.58	T.		2.55	
Herrs Isl. Dam|||	Ohio.....		T.	.03	.16	T.	.03			.05	.20		T.	.89					T.	T.			.59	.01					.10	T.			2.01	
Indiana.....	Conemaugh.....			.32	.01	1.25					.28		.80	.17								.20	1.00						.60	1.20			5.83	
Ingram.....	Ohio.....		T.	.24	T.	.05					.30	.02		.45	.55								.47						.08	.11			2.27	
Irwin.....	Youghiogheny.....			.20	T.	.13				T.	T.	.05		.09	.16								.06						.05	.47			1.16	
Johnstown.....	Conemaugh.....		.03	.18	.07	.56				1.40	.05	T.	.16									.10	.07					T.	.04	.02	.03		2.71	
Kregar|||	Youghiogheny.....			T.	.25	.90	.05				.97			.14					T.	.55			.01	.01						.05	.25		3.18	
Linesville|||	Beaver.....		.02								.40		1.10	.32	.02							.32	.02						1.02	.02			2.88	
Lock No. 4|||	Monongahela.....			.03	.28	.10	.40				.25			.37								.18							.09	.12			1.82	
Lycippus.....	Conemaugh.....					.20					T.	.57		T.	.20				.33				.08						T.	T.			.43	1.81
Martin.....	Monongahela.....				.76	.65	.24				1.38			.74					T.	T.			.18								.35		4.80	
Mount Lebanon.....	Ohio.....		.43		.11					.23	.04			.19	.32				.12				.19						.05	.09			1.77	
New Castle|||	Beaver.....		T.	.02	.06					.24		1.01	.22									.22							.45	.02			2.24	
Newell.....	Monongahela.....			.26		.42	.02				.29		.02	.08					.03	.09			.06						.07	.02	.06		1.42	
Parkers Landing|||	Allegheny.....		T.	T.						T.	T.		.88	.26								.22	T.						.46	.13			1.95	
Pennline|||††	Beaver.....		T.		T.						.30			.78	.34					T.			T.						1.35	.01			2.78	
Pittsburgh***	Ohio.....		T.	T.	.19	T.	.02			T.	.14			.81					T.				.46						.03	.07			1.72	
Ridgway†.....	Allegheny.....				.13					.26	.16			1.37	T.							.63		.24					.32				3.12	
Saltsburg|||	Conemaugh.....			T.	.20	.30	.49				.63			.60	.75								.54						.04	.98			3.18	
Saegertown|||	Allegheny.....		.01			.15					.33			.60	.75														.78	.06			2.68	
Sharon|||	Beaver.....					.28				.02	.47		1.16	.32									.03						.47				2.75	
Somerset.....	Youghiogheny.....																																	
Springdale|||	Allegheny.....			.02	.20		.34				.22			.57									.60	.05						.03			2.08	
Uniontown.....	Monongahela.....			.72		1.05				.27	1.00		.03	.34					.16	T.			.06	.02					T.				3.71	
Unity Reservoir††	Youghiogheny.....			.12		.12				.22	.02		.15	.17									.20						.05	.07	.12	.82	2.06	
Vandergrift.....	Conemaugh.....																																	
Warren.....	Allegheny.....					.09				.18	.25		1.08									.36							.05	.94			2.95	
Washington.....	Ohio.....		T.	.01	.59	.01	.28			T.	.10			.64	.01				T.				.14						.06	.09	T.		1.93	
Westford|||	Beaver.....						.07				.53		1.27								T.									1.07			2.94	
West Newton|||	Youghiogheny.....				.15	.09	.02			T.	.24			.27					.02	.13					.09				.10		.80		1.91	
Zelienople|||	Ohio.....			.21		.15					.74			.07	.44									.40	.02					.52	.05		2.60	
Lake Drainage.																																		
Eric***	Lake Erie.....		T.							.21	.03		T.	.30				.01				T.		.01					.14	1.71	T.		2.41	
West Bingham.....	Genesee.....					.20				T.				1.05					.09			.31		.05						.33			2.03	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements
T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. †† Post Office addresses are as follows: of Blossville
Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Paupack Electric, Hawley; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink; of
Unity Reservoir, Greensburg. ‡ Mdt. to mdt.

Daily Temperatures for July, 1926

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum...	86	85	91	80	70	81	85	88	97	98	76	83	86	70	70	83	87	89	86	86	100	101	86	88	86	83	83	83	78	87	79	84.9	
	Minimum...	63	59	67	69	62	61	62	58	64	71	65	51	60	58	58	58	56	63	58	65	70	69	71	70	66	61	58	63	67	68	66	63.1	
Altoona.....	Maximum...	85	78	84	73	65	82	80	85	91	84	70	77	77	71	71	78	85	86	87	94	95	97	77	82	82	77	73	75	84	85	79	80.9	
	Minimum...	48	51	60	62	60	61	65	52	60	63	58	46	58	53	47	50	57	63	54	66	71	68	67	60	62	59	57	63	66	59	57	58.9	
Beaver Dam.....	Maximum...	85	85	85	80	85	82	84	89	91	90	82	81	80	72	76	83	86	90	93	97	100	99	94	84	84	81	83	79	85	84	90	85.9	
	Minimum...	49	59	65	64	65	70	61	53	63	72	59	50	60	48	49	49	55	67	58	69	63	68	65	56	53	61	64	61	63	59	60	59.9	
Bradford.....	Maximum...	81	83	88	84	76	86	82	88	91	88	78	78	68	70	....	82	86	82	89	93	95	92	85	86	80	83	....	80	81	79	88	83.5 ^b
	Minimum...	44	51	52	52	54	63	52	48	56	72	54	40	53	40	....	40	45	67	64	64	62	62	62	44	48	41	....	52	65	52	65	54.0 ^b
Brookville.....	Maximum...	83	81	85	73	71	85	82	86	90	95	72	80	65	71	74	81	85	85	89	94	96	93	79	75	82	81	74	70	83	80	85	81.5	
	Minimum...	40	45	54	58	60	62	46	43	53	61	40	38	53	45	41	41	45	52	49	57	55	58	55	52	48	47	53	59	54	50	51	50.5	
Carlisle.....	Maximum...	94	92	94	86	68	88	86	92	98	96	92	86	86	76	78	87	90	93	92	93	102	103	101	90	87	86	79	85	87	90	86	89.1	
	Minimum...	51	56	62	68	63	66	63	55	64	68	65	47	60	56	48	56	52	58	56	67	65	67	71	67	64	59	59	60	67	70	63	61.1	
Catawissa.....	Maximum...	88	88	94	80	70	80	88	90	97	92	75	84	85	69	81	87	89	90	90	89	101	104	79	91	90	87	86	83	78	88	84	86.4	
	Minimum...	48	48	50	66	62	60	61	53	62	69	61	44	58	53	47	55	50	62	53	64	65	62	67	64	62	57	75	66	66	67	60	59.3	
Chambersburg.....	Maximum...	90	88	91	84	67	85	86	87	94	94	89	83	84	76	69	84	88	93	91	96	103	104	95	88	82	80	78	82	83	91	85	86.8	
	Minimum...	55	57	67	67	61	65	66	55	64	70	63	46	58	57	47	50	54	60	57	68	65	65	71	67	65	63	59	60	70	65	68	61.5	
Claysville.....	Maximum...	92	90	91	83	83	81	86	92	90	88	84	82	78	75	76	84	85	88	91	94	97	100	98	93	91	87	81	81	91	90	94	87.6	
	Minimum...	47	56	63	64	63	66	64	51	63	71	58	46	62	50	43	45	52	67	56	68	71	71	65	56	51	60	64	60	65	59	58	59.2	
Clearfield.....	Maximum...	90	87	89	88	73	85	85	92	93	92	82	83	83	78	78	81	86	88	89	90	98	100	97	80	92	83	83	76	80	91	90	87	86.7
	Minimum...	45	61	67	57	65	62	60	47	55	62	57	40	58	51	44	48	52	60	54	54	59	60	65	64	60	50	55	62	64	58	58	56.6	
Coatesville.....	Maximum...	86	89	89	80	67	82	84	86	93	95	80	81	85	72	64	82	84	85	85	85	97	98	87	87	83	81	81	80	82	87	74	83.7	
	Minimum...	57	56	70	64	61	63	65	58	63	74	64	49	60	59	57	57	54	65	60	65	67	70	69	67	68	60	55	59	67	73	65	62.6	
Corry.....	Maximum...	76	82	84	79	75	84	81	85	90	85	74	73	65	68	73	79	84	79	87	92	85	90	79	80	79	85	78	71	75	77	85	80.0	
	Minimum...	46	58	56	50	61	63	52	49	80	70	50	46	50	38	50	42	53	68	60	69	67	71	60	45	52	54	57	58	64	52	57	56.4	
Emporium.....	Maximum...	80	75	84	75	72	78	79	81	90	83	73	79	65	70	73	78	83	83	81	87	90	97	79	84	80	79	81	80	73	83	80	82	79.7
	Minimum...	46	55	58	55	62	64	58	48	57	70	53	44	58	48	44	48	52	61	55	66	60	60	63	55	52	44	56	62	65	55	59	55.9	
Erie.....	Maximum...	75	84	77	75	60	83	72	87	90	82	68	76	65	69	42	78	86	77	89	93	94	90	75	76	73	77	78	75	71	77	77	78.7	
	Minimum...	57	65	66	62	64	66	62	61	70	61	58	58	50	53	54	66	66	63	76	77	68	65	59	62	57	63	60	64	62	64	62	63.3	
Franklin.....	Maximum...	84	83	85	74	78	87	80	88	91	83	71	78	65	72	75	82	85	84	92	96	97	92	84	85	83	85	74	75	82	85	89	82.7	
	Minimum...	45	47	58	59	63	63	56	48	58	71	56	45	60	43	44	45	52	59	52	63	60	62	63	50	49	54	51	52	47	47	54.0		
Freeland.....	Maximum...	80	80	87	80	68	78	77	84	91	90	74	76	80	71	77	82	83	81	87	90	97	79	84	80	79	81	80	71	80	81	80.7		
	Minimum...	50	56	62	60	54	54	59	54	62	70	52	46	56	48	48	50	56	59	53	60	66	66	60	60	61	54	54	58	58	60	56	56.8	
Gettysburg.....	Maximum...	91	89	94	80	69	88	89	90	100	98	85	85	87	75	75	87	90	95	92	87	105	104	92	88	88	85	83	84	83	92	80	88.1	
	Minimum...	57	57	67	65	61	66	67	57	65	72	64	49	60	57	51	54	55	63	70	67	63	70	68	70	67	70	68	58	68	67	63.4		
Greensburg.....	Maximum...	87	81	82	77	85	81	84	89	91	88	82	80	79	73	75	84	87	90	93	97	97	97	92	88	85	84	80	81	87	86	89	85.6	
	Minimum...	50	60	61	65	63	70	64	52	62	72	59	48	59	53	46	48	55	64	67	71	69	72	67	70	69	64	62	65	69	60	62	61.9	
Grove City.....	Maximum...	79	79	80	77	76	85	79	85	88	88	71	78	71	66	72	78	83	80	88	92	94	91	97	78	79	80	72	75	78	79	85	80.1	
	Minimum...	48	62	62	65	64	63	56	50	66	66	57	49	57	47	46	44	54	67	54	71	64	71	63	55	55	58	61	61	60	64	58	58.6	
Hamburg.....	Maximum...	87	89	92	89	76	81	84	86	94	93	85	82	84	72	71	83	86	90	86	86	97	99	85	86	86	83	81	81	79	81	82	85.0	
	Minimum...	50	55	55	62	58	61	65	54	61	68	52	46	55	57	54	59	52	58	51	61	66	65	69	68	65	64	53	60	65	68	60	59.4	
Harrisburg.....	Maximum...	89	86	92	76	67	85	85	87	95	94	77	84	86	65	72	84	87	90	88	87	100	101	82	86	84	80	77	80	82	84	75	84.1	
	Minimum...	59	64	71	67	64	62	70	65	68	76	65	56	67	56	58	59	67	64	69	73	74	71	67	69	66	63	65	69	70	66	65	65.8	
Hawley.....	Maximum...	83	83	88	82	78	85	82	89	95	96	87	81	81	75	71	84	88	86	86	91	99	100	82	89	85	84	87	84	79	82	79	85.2	
	Minimum...	44	52	60	51	47	58	58	48	56	71	59	40	54	52	48	56	46	60	49	56	62	60	65	61	55	51	49	59	58	67	59	55.2	
Huntingdon.....	Maximum...	90	82	89	77	70	87	85	90	95	91	75	82	79	72	74	84	89	91	93	98	101	104	83	87	85	83	78	79	85	86	77	85.2	
	Minimum...	45	53	65	66	61	63	63	49	59	70	62	44	60	55	47	50	56	52	66	62	68	62	68	62	58	60	66	68	63	60	58	58.9	
Indiana.....	Maximum...	86	85	85	76	74	80	80	89	90	89	84	78	78	72	73	80	82	86	90	95	97	97	96	85	81	80	78	77	84	85	88	83.9	
	Minimum...	46	57	62	61	63	64	61	50	57	71	58	44	57	51	48	44	45	50	50	71	64	74	62	63	60	57	63	64	59	61	58	58.1	
Johnstown.....	Maximum...	91	83	86	74	66	85	87	92	95	88	74	83	77	78	74	83	88	91	92	99	101	101	77	90	87	82	75	81	88	90	89	85.4	
	Minimum...	50	52	53	65	63	65	65	53	63																								

57.85
UNP

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total movement, in miles	Velocity, in miles per hour		
				8 a m	8 a m		Average	*Highest	Direction
Erie.....	246.3	428.7	57	76	72	9,217	12.4	64	se.
Harrisburg.....	193.5	425.1	46	81	74	3,701	5.0	26	n.
Philadelphia.....	243.4	425.1	57	82	74	4,851	6.5	23	n.
Pittsburgh.....	183.3	426.9	43	81	64	6,360	8.5	43	s.
Reading.....	200.7	425.1	47	81	79	3,233	4.3	24	e.
West Chester.....	173.7	426.9	41	81	70	3,756	5.0	20	w.

* For any five-minute period.

COMPARATIVE DATA FOR AUGUST

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	69.8	100	33	7.05	11.27	3.18	.....	.....	.....
1889.....	67.4	100	37	3.24	7.07	0.83	.....	.....	.....
1890.....	68.8	98	34	5.76	9.65	2.58	9	14	8
1891.....	69.6	99	35	5.09	11.77	1.43	8	12	11
1892.....	71.4	99	42	3.77	7.64	1.07	14	7	10
1893.....	70.4	99	30	4.50	9.99	1.68	14	10	7
1894.....	69.4	98	32	1.84	5.51	0.17	13	12	6
1895.....	72.3	101	32	3.23	6.03	0.59	15	11	5
1896.....	71.2	101	35	2.22	6.53	0.45	14	11	6
1897.....	67.9	97	34	3.17	8.60	0.34	14	11	6
1898.....	72.3	99	37	6.60	11.32	3.72	11	11	9
1899.....	71.2	101	38	4.01	10.09	0.07	14	10	7
1900.....	75.0	103	38	3.33	5.78	0.84	14	12	5
1901.....	72.0	99	42	6.81	13.65	2.48	10	12	9
1902.....	67.8	100	34	2.62	6.44	0.51	13	13	5
1903.....	67.2	99	36	5.29	8.05	2.00	9	12	10
1904.....	68.0	96	34	4.36	9.64	1.66	15	10	6
1905.....	69.6	95	36	5.71	10.83	1.92	12	12	7
1906.....	73.2	96	39	5.62	11.65	1.62	10	12	9
1907.....	68.0	97	32	2.94	6.19	0.77	16	9	9
1908.....	69.4	102	30	3.22	8.06	1.22	15	10	6
1909.....	69.4	100	34	2.31	7.76	0.12	16	9	6
1910.....	69.8	98	35	2.61	6.46	0.55	14	10	7
1911.....	71.4	102	36	7.63	15.14	2.60	11	8	12
1912.....	67.1	93	36	5.02	9.65	1.68	9	12	10
1913.....	70.4	102	38	2.69	10.93	0.70	17	9	5
1914.....	71.3	100	34	3.85	7.20	0.64	13	11	7
1915.....	68.0	99	34	6.71	14.44	1.92	10	11	10
1916.....	71.9	103	32	2.57	7.08	0.21	17	10	4
1917.....	71.2	101	38	6.69	17.50	1.06	15	10	6
1918.....	73.6	106	32	4.12	8.02	1.05	16	10	5
1919.....	68.2	94	35	5.43	12.03	2.35	13	10	8
1920.....	70.2	95	37	4.66	9.29	1.93	9	12	10
1921.....	68.4	97	35	3.83	6.68	1.81	17	8	6
1922.....	69.1	100	31	3.14	8.16	1.15	15	9	7
1923.....	69.2	96	30	3.10	7.30	0.59	15	11	5
1924.....	70.1	102	31	3.78	7.51	1.48	16	10	5
1925.....	69.7	97	26	2.28	5.14	0.65	18	9	4
1926.....	71.9	103	32	5.69	10.04	2.95	11	8	12

RIVER CONDITIONS

Stations	Rivers	Mean stage		Highest stage		Lowest stage		Flood stage	
		Date	Stage	Date	Stage	Date	Stage	Date	Stage
Port Jervis.....	Delaware.....	2.9	5.0	19	1.7	5	18		
Phillipsburg.....	Delaware.....	2.1	4.5	18	0.6	12	22		
Mauch Chunk.....	Lehigh.....	3.7	4.9	17	3.3	1	12		
Wilkes-Barre.....	Susquehanna.....	4.0	7.4	19	2.0	1	20		
Williamsport.....	Susquehanna.....	2.3	5.4	18	0.4	1	20		
Harrisburg.....	Susquehanna.....	4.0	5.2	27	3.3	1	17		
Freeport.....	Allegheny.....	4.3	9.1	18	1.5	2	22		
West Newton.....	Youghiogheny.....	1.9	7.5	22	0.4	5	20		
Lock No. 4.....	Monongahela.....	15.1	25.9	19	12.5	4	31		
Pittsburgh.....	Ohio.....	12.0	17.2	19	10.0	3	25		
Beaver Dam.....	Ohio.....	9.0	15.4	20	7.2	6	30		

GENERAL SUMMARY.

The month averaged well above the normal, both in precipitation and temperature. A prolonged rainy spell set in on the 12th and rain fell on each successive day in nearly all parts of the State until the 25th. The temperature, while not setting any new August records, was consistently above normal in most sections until about the middle of the month and below normal during the next ten days; the last week averaging slightly above. Temperatures well up in the 90's were general on the 11th and as late as the 29th. The continuous wet weather during most of the month resulted in serious rotting to the potatoes and apparently one-fifth of the crop was spoiled. Potatoes on low or poorly drained ground were similarly affected. Late corn made good progress, especially in western counties, where the rainfall was not quite so heavy as in the eastern part of the State, but development of early corn already eared was slowed up by the adverse weather conditions. Fruit growth was little affected by the rains, although the quality suffered in some instances. The peach crop is the best in 17 years.

Electrical storms were numerous during the month. A severe thunderstorm, accompanied by heavy hail visited Franklin on the 5th, resulting in the destruction of a barn by fire and the heavy rain and hail doing considerable damage to growing crops. A similar storm visited Mt. Gretna on the 3d and one man was killed by lightning during the storm. Electrical storms, with unusually heavy rains visited southeastern Pennsylvania on the 12th, the heaviest damage being done in York, Lancaster and Berks counties. In Philadelphia the rain was excessive and cellars were flooded in various parts of the city, when the sewers could not carry off the great volume of water.

TEMPERATURE.

The mean temperature for the State, as computed from the observations of 84 stations, was 71.9°, or 1.9° above the August normal. The highest monthly mean was 75.9° and occurred at two stations: Philadelphia Navy Yard and Philadelphia Point-Breeze. The lowest monthly mean, 64.2°, was reported from West Bingham. The highest temperature for the month was 103°, at Somerset, on the 10th, while the lowest, 32°, occurred at West Bingham on the 31st. The greatest daily range of temperature, 51°, occurred at Donora on the 10th.

PRECIPITATION.

The average precipitation for the State, as determined from the records of 138 well-distributed stations, was 5.69 inches, which is 1.46 inches in excess of the August normal rainfall. The greatest monthly total was 10.04 inches at Muncy Valley and the least, 2.95 inches, occurred at Pittsburgh and Selinsgrove. The greatest amount for any 24 consecutive hours was 4.49 inches, at Ephrata, on the 12-13th. F. H. A.

Climatological Data for August, 1926

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers	
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy			Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	14	72.8		95	11	53	31	33	5.85	+1.50	2.27	0	14	12	14	5	ne.	John A. Frick.
Altoona	Blair	1,615	39	70.1	+0.5	91	11	46	31	33	6.77	+3.38	1.72	0	20	10	11	10	w.	Lewis E. Biller.
Bethlehem	Northampton	295	42			98	11				5.63	+1.31	2.05	0	10	17	2	12	nw.	Lehigh University.
Biglerville	Adams	652	4																w.	R. C. Walton.
Bustleton	Philadelphia	125	7	74.3		96	11	51	31	34	5.45		2.00		10	13	6	12	w.	Experiment Station.
Canton	Bradford	1,300		70.0		91	2	47	26	35	6.73		1.48	0	14	5	14	12	w.	Marble Laboratory, Inc.
Carlisle	Cumberland	467	59	74.2	+1.5	100	11	49	31	35	4.71	-0.25	1.10	0	20	16	3	12	se.	Prof. C. E. Miller.
Catawissa	Columbia	520	29	71.6	+1.3	97	11	46	31	40	4.91	+0.79	1.25	0	11	17	3	11		H. H. Yetter.
Center Hall	Center	1,272	30																w.	S. W. Smith.
Chambersburg	Franklin	580	26	73.2	+1.0	100	11	49	31	34	4.40	+0.16	1.11	0	18	13	6	12	ne.	William B. Spear.
Clearfield	Clearfield	1,120	16	72.2	+2.3	95	11	45	31	42	4.99	-0.15	1.56	0	13	9	13	9	w.	E. W. Hess.
Coatesville	Chester	380	38	72.6	+2.9	94	3†	53	31	33	4.62	+0.19	2.38	0	14	8	12	11	s.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	16	70.8	+0.2	93	11	50	31	29	7.71	+2.87	2.17	0	17	12	5	14	e.	Wm. A. Rorer.
Emporium	Cameron	1,050	38	69.0	+1.1	88	6†	44	31	34	7.40	+3.33	1.30	0	12	12	10	9	w.	T. B. Lloyd.
Ephrata	Lancaster	380	25	72.6	+0.8	95	11	51	31	31	8.12	+3.22	4.49	0	16	12	2	17	w.	Ira J. Keath.
Freeland	Luzerne	1,970	11	66.2		91	13	44	31	32	7.13		1.46	0	20	6	8	17	nw.	Theo. Reichmann.
George School	Bucks	190	19	73.2	+1.8	95	11	50	31	31	7.51	+2.91	3.35	0	15	12	3	16	e.	Prof. N. W. Swayne
Gettysburg	Adams	600	52	74.4	+2.7	99	12	49	31	38	5.08	+1.01	1.07	0	18	10	9	12	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	22	69.9	+1.7	95	11	42	31	38	4.37	-0.40	0.82	0	17	10	5	16	e.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	2	65.6		88	2	43	9	38	6.37	+1.19	1.52	0	14	11	5	15	w.	Gustav Holtz.
Hamburg	Berks	535	33	71.4	-0.3	94	11	50	31	33	5.10	-0.26	1.58	0	15	12	10	9	w.	State Sanatorium.
Hanover	York	600	22	74.4	+0.8	98	12	54	31	27	5.05	+0.27	2.14	0	17	13	9	9	nw.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	56	73.8	+1.2	98	11	57	22	26	4.99	+0.74	1.21	0	17	7	8	16	nw.	U. S. Weather Bureau.
Hawley	Wayne	900	7	69.2		93	3	44	31	37	5.67		1.48	0	10	12	8	11	nw.	J. S. Pennell.
Holtwood	Lancaster	200	11	73.8		97	11	57	31	27	3.89	+0.39	1.80	0	16	15	6	10	w.	H. W. Lowry, C. E.
Huntingdon	Huntingdon	650	38	72.4	+1.7	97	11	48	31	39	3.86	-0.23	0.90	0	17	12	7	12	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	.....	73.2	+2.3	102	11	45	9	41	4.51	+0.23	1.76	0	14	7	11	13	.....	John S. Madore.
Lancaster	Lancaster	255	38	74.5	+1.8	98	11	49	31	39	5.38	+1.35	2.57	0	12	14	11	6	w.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	28	69.3	+1.2	92	3	43	31	38	5.71	+1.91	0.94	0	11	15	5	11	.....	C. P. Darling.
Lebanon	Lebanon	469	85	73.0	+1.0	97	11	51	31	32	5.44	+0.83	2.77	0	15	13	5	13	e.	S. B. Benzing.
Lewisburg	Union	450	51	73.4	+4.5	99	11	49	31	38	5.33	+0.66	1.92	0	14	13	3	15	w.	Prof. W. G. Owens.
Lock Haven	Clinton	560	36	69.0	-2.3	93	11	41	31	43	5.54	+1.37	2.00	0	15	13	5	13	w.	John P. Anthony.
Lykens	Dauphin	680	11	71.2	+1.0	97	11	43	5	46	3.33	-0.51	0.61	0	19	13	4	14	nw.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	35	70.9	+0.6	97	11	42	8	39	7.93	+2.96	2.37	0	16	15	2	14	e.	R. K. Wintermute.
Midlinton	Juniata	445	22	73.2	+2.6	99	11	49	31	39	3.71	-0.81	0.69	0	20	13	2	16	w.	Wellington Smith.
Montrose	Susquehanna	1,720	23	67.1	+0.2	88	3	46	31	35	7.34	+3.13	1.90	0	15	7	12	12	.....	Silas Jagger.
Mt. Pocono	Monroe	1,658	23	64.6	+0.4	83	13	47	9†	29	5.67	+1.33	1.60	0	11	7	7	17	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	14	68.2	+0.5	89	4†	42	31	37	10.04	+4.80	2.61	0	14	11	12	8	w.	A. H. Boatman.
Narberth	Montgomery	300	7	73.0		94	3	56	31	28	7.02		1.68	0	15	10	7	14	sw.	Charles Decker.
Neshaminy Falls†	Bucks	60	37	72.8	+1.8	95	3	50	31	38	7.67		2.64	0	14	12	6	13	sw.	North Springfield Water Co.
Palmerston	Carbon	398	9	71.0		95	11	42	31	35	5.87		1.76	0	16	11	7	13	ne.	F. G. Breyer.
Philadelphia	Philadelphia	114	55	75.4	+0.6	96	3	59	21	24	5.99	+1.38	1.70	0	14	7	10	14	sw.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	1	75.5		95	3†	59	22	23	6.14		1.44	0	13	13	5	13	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	10	75.9		98	3	59	21	24	4.77		1.95	0	12	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze	Philadelphia	90	1	75.9		97	3	59	21†	24	5.60		1.18	0	15	6	13	12	w.	Atlantic Refining Co.
Phoenixville	Chester	100	15	74.5	+1.8	101	11†	51	31	33	3.88	-0.64	1.04	0	9	15	9	7	e.	North Springfield Water Co.
Quakertown	Bucks	496	41	71.6	+4.4	94	11	52	31	34	6.21	+1.92	1.32	0	19	12	7	12	nw.	John E. Benner.
Reading	Berks	325	56	73.8	+1.4	96	11	56	31	28	7.05	+2.57	3.21	0	13	13	6	12	e.	U. S. Weather Bureau.
Scranton	Lackawanna	805	31	70.6	+0.8	91	3	53	31	29	6.60	+2.35	1.77	0	15	4	7	20	ne.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	36	72.3	+0.8	96	11†	50	31	34	2.95	-1.45	0.70	0	15	11	6	14	sw.	Dr. George E. Fisher.
Shawmont†	Philadelphia	51	30	75.0		93	3†	56	31	27	4.62	-0.51	1.62	0	12	13	7	11	sw.	W. S. Guiles.
State College	Center	1,217	41	70.8	+2.1	92	11	47	31	33	4.12	+0.34	1.33	0	14	7	14	10	sw.	C. A. Kern.
Towanda	Bradford	754	31	69.6	+1.1	90	2†	47	9	34	5.30	+1.60	1.00	0	14	11	6	14	e.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	60	67.8	+1.4	90	3†	40	31	37	4.84	+1.13	0.90	0	11	18	5	8	sw.	George W. Hill.
West Chester	Chester	455	88	72.8	+0.8	96	11	54	31	31	4.05	-0.63	1.45	0	14	12	9	10	w.	Arthur M. Hay.
Williamsport	Lycoming	521	39	72.9	+2.2	95	11	50	31	34	6.47	+1.86	1.66	0	18	11	4	16	nw.	George A. Beck.
York	York	400	38	73.8	+1.2	98	11	48	31	34	4.08	-0.21	1.53	0	17	12	8	11	w.	York Water Co.
Ohio Drainage.																				
Beaver Dam†	Beaver	700	33	74.4	+1.9	96	11	49	31	35	6.11	+2.33	1.65	0	17	4	10	17	sw.	U. S. Engineer.
Bradford	McKean	1,427	11	69.8		91	11	46	26	39	6.28		1.35	0	14	14	7	10	sw.	City Engineer.
Brookville	Jefferson	1,173	35	68.0	+1.5	91	11	40	31	41	6.59	+2.46	2.00	0	14	17	10	4	.....	John Fawcett.
Claysville	Washington	1,150	22	74.4	+2.9	101	11	44	31	41	5.35	+1.02	0.98	0	14	16	8	7	s.	J. L. Melvin.
Corry	Erie	1,430	14	69.6	+4.2	86	6†	41	31	36	6.13	+2.14	1.85	0	15	12	10	9	.....	Nevlin R. Dickson.
Derry	Westmoreland	1,172	29	72.4	+1.1	96	11	47	26†	36	6.70	+2.53	1.88	0	14	17	6	8	w.	Ted R. Wineman.
Donora	Monongahela	762	.....	75.8		99	11	42	10	51	3.39		1.30	0	14	12	8			

Daily Precipitation for August, 1926

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Atlantic Drainage.																																	
Allentown|||	Lehigh	.47	T											1.83																			5.85
Altoona	Juniata	.07	.45	.06	.09	.51	1.72	.10					.55		.50	.28	.51	.04	.25	.02	.30	.94	.02	.01	.13	.41	.03				.05	.22	6.77
Ansonia|||	W. Br. Susq.		.16	.42			.04	1.03						.57	.32	.19	.15	.06	.25	.15		.24	.31		1.00	.14			.06			.22	4.84
Baker's Summit	Juniata	.02		.21		1.60	.05	.25					.57		1.11	.52	.27	.25	.65	.18	.67	.90	.02		.06	.01					.24		7.58
Bethlehem	Lehigh	.76											1.78		.17		2.05		.08			.18	.01		.48	.02							5.63
Biglerville	Susquehanna																																
Bloersville†	Lower Susq.	.29		.05		.14	.75						.76		.55	.43	.42	.06	.48	.55	.11	.48	.15	.05	.16	.43					.10		5.96
Bustleton	Lower Del.	.64							.30				2.00		.95		.37	.05	.28		T.		.55		.05	.26							5.45
Canton	N. Br. Susq.	.04	.21			.01	.41						.75	.19	1.48		.52	.01	1.36			.68		.76	.06			.25			.20		6.7
Carlisle	Lower Susq.	.42		.36	T.	.13	.02					.03	1.10	.09	.36	.34	.42	.02	.41	.04	.10	.38	.12	.02	.09	.06							4.7
Catawissa	N. Br. Susq.	.01	.94			.13	.19						.29		1.25		.72	.03	.12			.46	T.	T.	.57	.33							4.9
Center Hall	Susquehanna																																
Chambersburg	Potomac	.01	.06	T.			.48	T.					.04	1.11	.28	.09	.44	.06	.54	.16	.56	.29	.07	.02	.07	.06					.06		4.40
Clearfield	W. Br. Susq.		.28	.06		.30	.23	.14					.08		.41		1.56	.31	.04		.05	1.05		.48						T.			4.99
Coatesville	Lower Del.	.68	.03				.01							1.42	.96	.20	.11	.11	.37		.04	.36	.06		.11	.16							4.62
Conshohocken	Lower Susq.	.04		.56			.02						2.17	1.95	.88	.04	.51	.12	.23	.02	.05	.36	.23	T.	.45	.04		T.			.04		7.71
Cresson|||	Schuylkill	.50					T.						1.70	.31	T.	.07	.84	T.			.85	T.	.04	T.	.16						.02		4.49
Doylstown	Juniata	.05	.02	.40	.02	1.01	.79	.36					1.06	.07	.31	.04	.18	.31	.15	.02	.21	.07	.40	.64	.15					.25	.10		6.61
Driftwood|||	Lower Del.	.53		.08				.48					1.52	.83		.40	.14	.04	.44			.40	.23		.33	.10					.31		5.83
Emporium.	W. Br. Susq.		.11	.37	.08		.36	1.30					.42	1.10	.07	1.10	2.00	1.10	.02		.15	.26		.60	.20					.04			8.28
	do.	T.	.20	T.		.30	T.	1.23					.73	.18	1.05		1.30	.18	.40		.06	.64	T.	.08	1.05				T.				7.40
Ephrata	Lower Susq.	.77	T.	.04	T			.02					3.10	1.39	.93	.20	.56	.02	.29	T.	.01	.32	.11	.01	.29	.06							8.12
Forest City	N. Br. Susq.		.22	.81				.18				.04	1.01	.20	.42	.05	1.25	.08	.68		.15		.11	.07	.27			.04	.07				5.65
Freeland|||	Lehigh	.02	.03	.41	.04			.24	.04				.43	1.26	.60	.21	.72	.03	.47	.01		.58	.17	.24	.16	1.46	.01						7.13
George School	Lower Del.	1.03	T.					.96					3.35	.01	.55	.08	.09	.38	T.		.32	.22	.05	.18	.20	.01				.08			7.51
Gettysburg	Potomac	.16	.75				.53	.01					1.07	.21	.04	.30	.07	.65	.07	.45	.40	.13	.05	.07	.10	.02							5.08
Girardville†	Susquehanna	.15	.20	.09				.10					.84		.36		.71	.06	.43		T.	.42	.07	.02	.60	.02					.16		4.23
Gordon	Lower Susq.	.12	.28	.02				.10					.65	.48	.82	.05	.52	.04	.42			.31	.16	.06	.32	.01			.01				4.37
Gouldsboro||	Lehigh		.05	.88				.58						.65	.62	.80	.62	.90		.42	T.		.16	.11	.30			.10	.18				6.37
Graterford	Schuylkill		.09	T.				.03					1.18	.09	.21	.15	.47	.66	.09	T.	.32	.21		.54	.28						.16		4.48
Hamburg	Schuylkill	.63		.03			.02	.02					.89	.78	.01	1.58	.11	.31	.05		.21	.12	.16	.18	.05								5.10
Hamlin	Upper Del.		.47			.05	.03					1.45	.60	.28	.10	1.70	.05	.60			.25	.10	.20	.20	1.36	.20							7.64
Hanover.	Lower Susq.	.03		.05			.65	.05					2.14	.08	.20	.10	1.04	.74	.03	.31	.27	.15	.02	.06	.13								5.05
Harrisburg***	do.	1.21		T.		T.		.08				.02	.90	.01	.56	.08	.91	.10	.28	T.	.06	.31	.18	T.	.21	.02				.04	.02		4.99
Harrisburg East.	do.	1.02	.84	.01		T.	.12					T.	.14	1.07	.60	.06	.86	1.18	.27	T.	.09	.84	.18	T.	.21	.03					.06		6.09
Harrisburg North.	do.	.65	.55		.15		.02							.59	.06	.60	.47	.43	.19	.16	.11	.29	.17		.19	.08							4.71
Hawthorn|||	Upper Del.			.18				.40					1.05	.68	.18		1.48		1.10		.21			.31				.08					5.67
Holtwood||	Lower Susq.	.06	.09				.06	T.	.44					1.80		.15	.08	.04	.16	.20	.07	.02	.45	.10		.07	.08						3.89
Huntingdon.	Juniata			.49	.01	.20	.02	.08					.90		.31	.04	.31	.03	.24	.04	.12	.43	T.		.17	.02					.45		3.86
Hyndman	Potomac					.03	T.						.03	.08	.71	.03	.20	.82	.29	1.09	.67	T.		.10	.10						.16		4.51
Lancaster	Lower Susq.	.05		.30				.40					2.57		.84		.22	.03	.41		.03	.32	.13		.08								5.38
Lansford|||	Lehigh		.27		.11			.05	.60				.69	.10	*	.94	1.17	.02	.27		T.	*	.68	.15	.19	.14	T.				.30		5.68
Lawrenceville	N. Br. Susq.			.83				.94					.80	.16	.27		.07	.40	.78		.38	T.		.90	.18			T.					5.71
Lebanon	Lower Susq.	.02		T.			T.	.01					2.77	.76	.29	.22	.24	.11	.11	.02	T.	.45	.01	T.	.31	.03	T.			.09			5.44
Lewisburg	W. Br. Susq.		.02	.74	T.			.05					.28		.90	.07	.02	1.92	.04		.65	.06	.06	.43	T.		.09						5.33
Lloyd	do.	1.30	.18			.02		.03					.62		1.41		.63	.36	.28		.54			.83				.18					5.65
Lock Haven	do.		.24	.27		.55	.20	.03					.28		.58		1.00	.11	.05	.15	.05	.48			.48			.07		T.			5.54
Lykens.	Susquehanna	.23	.08	.34	.03			.01					.25	.61	.43	.09	.34	.04	.09	T.	.24	.03	.02	.33	.01					.12			3.33
Mauch Chunk	Lehigh	.35	.10	.03				.69					.42	.83	.86		2.37	.01	.19		.34	.25	.31	.39		.63					.16		7.93
Mifflintown	Juniata	.01	.13	.08	.08		.08						.40	.06	.02	.13	.69	.06	.28	.04	.12	.46	.07	.06	.48	.10					.36		3.71
Montrose.	N. Br. Susq.		.15	.03			.25					.05	.52	.79	1.15		.79	.11	1.90		.35	.16	.07	.60				.42				7.34	
Morris Run.	N. Br. Susq.	.04	.05	.03			.01	.28				T.	.37	.11	1.09		.34	.05	.81		.65		.05	.71				.23					4.84
Mt. Pocono	Upper Del.					T							.79	.39	.88	.30	1.60	T.	.25	T.	.50	.40	.25	T.	.25	.06							5.67
Mount Union|||	Juniata				.46		.05						1.75		.83		.44	.18	.20	.18	.20	.22	T.	.10	.10	.05	T.			.38			5.14
Muncy Valley	W. Br. Susq.			2.20		.03						T	.71	.05	1.41	.02	.61	.05	1.43	T.	.61	.08	.03	.79	.02							10.04	
Narberth.	Lower Del.	.41	.01	T			1.68						1.63	1.37	.19	.17	.05	.34	.17	T.	.54	.22		.04	.17	.03				T			7.02
Neshaminy ||||	Lower Del.	1.40	.03					.32					2.64	1.21	1.41		.28	.10	.40	.03		.50	.16		.05	.63				T.			7.67
New Park.	Lower Susq.			.02		.10		1.12					1.75	.10	.08	.13	.05	.61	.04	.09	.34	.34		.08	.18								5.03
Palmerston.	Lehigh	.02		.02				.16					1.75	1.31	.39	.01	1.76	.01	.11		.21	.16	.17	.33	.37					.09			5.33
Paupack	Upper Del.		.48				.15						1.64	.12	.99		1.41		1.56		.19		.03	.30	1.40			.06					8.33
Paupack Electric.	Upper Del.												1.18	.52	.53	.12	.89	.04	.														

Continued on page 39

Daily Precipitation for August, 1926—Continued from page 38

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio.....			.08	.06		.09	.12					1.04	.14	.52	.81	1.65	.05	.40	.08		.40	.17		.08	.03					.39		6.11	
Beaver Falls|||	Beaver.....			.19	.23	.05	.15	.16					.18	.02	.49	1.10	.86	.07	.12	.01		.37	.10		.10	.03							4.23	
Bradford	Allegheny.....		.72	.26		.03	.96	.73					1.03	*	1.35		.03		.27	T.		.32	.03		.50	T.		.05					6.28	
Brookville	do.....		.75	.15		.25	.35					.06		.15	.50	2.00	.10	.08		T.		.50		1.50						.10			6.59	
Claysville	Ohio.....		.03	.02	T.			.01							.70	T.	.54	.98	.32	.02	.69	.35	.98		.10			.12			.49		5.35	
Cloet†	Allegheny.....		.21	.46	.10		1.05	.04	.32					.05	.46		1.25	.20	.06		T.	.26	T.		.27					.25			4.98	
Clymer††	Conemaugh.....		.51		.07	1.12	.38	1.36					.04		.74	.30	1.08	.16	.14		.05	.56		.50						.65			7.66	
Confluence|||	Youghiogheny.....		.20		.15		.36	.12						.56	.06	.14	1.31	1.01	.06	.32	.41	T.	.71	.10		.09	T.		T.		.38		6.33	
Coraopolis|||	Ohio.....		.01	T.	.18	T.	.24	.13					.56	.06	.14	1.31	1.01	.06	.32	.41	T.		.36	.10		.13			.02			.07	5.40	
Corry	Allegheny.....		1.0	1.85	.02		.97	.03	.37	.13			.97		.92		.12	T.	.04	T.			.36	.10		.13							6.13	
Coudersport	do.....		.10	.25		.11		.90				1.20		.50		.12	.40					.45		1.05									5.08	
Creekside	Allegheny.....		.31		.02		1.92		.55					.81		1.22	.16	.07				.82		.01	.32			.01		.31			6.53	
Derry	Conemaugh.....		T.		.78	.71	T.	.40	.55			T.	.03		1.88	.03	.21	.20	.41		.40	.61	.05		.44								6.70	
Donora	Monongahela.....		.03	.03		.16		.13				.09	.25	.02					.41	.47		.15	1.30		.11	.20					.04		3.39	
Ebensburg	Conemaugh.....			.50	.30	.45	.18	.50					.58		.52	.41	.47	.10		T.		.47	.62		.20						.51		5.81	
Elk Lick	Youghiogheny.....					.10	.60	.55						.10	.35		.42	.25	1.25	.90	1.95	1.20		.25									7.89	
Falls Creek	Allegheny.....		.26	.23		.75		.26	.02		.03	.17			.64		2.28	.08	.06		.05	.63		1.46						.12			6.99	
Franklin|||	Allegheny.....			.59	.78	.39		1.51	.27				.09	.46	.33	.16	.48	.27	.04	.05		.35	.08		.34								6.19	
Freeport|||	Allegheny.....				.05		.80	.82					T.		.90	1.12	.74	.07	.40	.08		1.25	.15	.02	.10	.03					.75		7.28	
Greensburg	Youghiogheny.....		T.		.01	.47	.25	T.	.50			T.	.05	.01	1.40		.33	.25	.50	T.		.73	.40	.05	.25						.06		5.26	
Greenville	Beaver.....		.33	.26		.31		.13					1.26		.35		.31	.06				.02		.41									3.44	
Grove City	Beaver.....		.02	.34	.01		.04	.73					.86	T.	.53	.09	1.69	.14	.04		.30	.16	.07	.42									5.44	
Herrs Isl. Dam|||	Ohio.....		.02	T.	.02	.07	T.	T.				.16	T.		1.18	.54	.17	.31	.34	1	.70	.08	T.	.05	T.		T.				.06		3.70	
Indiana	Conemaugh.....		.30	T.	.10	.30	.38						.08		.60	.45	1.08	.20	.10		.08	.60		.13				.27			1.02		6.49	
Ingram	Ohio.....		T.	.02	.18	.02		.04	.01			.18	.02		1.55		.88	.23	.44		.39	.54	.10		.08		T.				.06		4.74	
Irwin	Youghiogheny.....		.04	.01	.06	T.	.01	.40				.02	.02	.05	1.18	.08	.45	.31	.65	T.		.80	.42	.06	.13						.02		4.71	
Johnstown	Conemaugh.....		.05		.19	.03	.04	.02	.46			T.	.40	.03	1.17	.27	.07	.09	.40	T.		.44	.86		.01	.14	.01				.04	.67	5.39	
Kregar|||	Youghiogheny.....		.04	T.		.01	T.	.51	1.00	.02		.81	.36	.05	1.29	.15	.78	.55	.24	.02	.47	.43		.07	.16		T.			.07			7.03	
Linesville|||	Beaver.....		1.17	1.39			.30	.70	.02			*	.17	.34	.51	.21		.44	.25		*	.35	.04	.10			T.						5.99	
Lock No. 4 |||	Monongahela.....		.03	.09	.03		T.	T.	.13					.55	.08	1.71	.22	.24	1.09	.31	1	1.58	.18	.06	.23	.14			.02			.06		6.85
Lyeippus	Conemaugh.....			.45	.22		.33	.98				T.	.25		1.45		.33	.42	.32	T.	.41	.37		.21							T.		5.74	
Martin	Monongahela.....											.16	T.	T.	.91		.80	.26	.56	.02	.44		.31	.05		.14					.15		5.31	
Mount Lebanon	Ohio.....		T.	.02	.60	.83		.02	.04			.16	T.	T.	.91		.80	.26	.56	.02	.44		.31	.05		.14							7.18	
New Castle|||	Beaver.....			.52	.03		.76	.87				.53	.20	.51	1.01	1.54	.05	.06	.01		.29	.06	.01	.40	.19			.01	.13				6.13	
Newell	Monongahela.....		.40	.06	.17	.10		.28				.27	.01	1.10	.14	.27	.97	.33	.04	.87	.32	.38		.40							.02	T.	5.19	
Parkers Landing|||	Allegheny.....			.22	T.	.40	T.	.15	.82				.21		.24	.33	1.75	.42	.10	T.		.20	T.		.35	T.					T.		6.27	
Pennline|||††	Beaver.....		1.66	1.19			.15	.92					.36	.20	.20	.13		.65				.55	.10	.12									2.95	
Pittsburgh***	Ohio.....		.01	T.	.02	.01	T.	T.				.09	.01	T.	.90		.55	.19	.39	T.	.50	.17	T.		.06		T.			.05	T.		6.02	
Ridgway†	Allegheny.....			.91				.36	.04				.41		.89		1.91	.51				.61		.38									4.50	
Saltsburg|||	Conemaugh.....				T.			.75						.60	.86	.54	.10	.12	.10	.24	.68	.22		.11	.16						.02			
Saegertown|||	Allegheny.....											.03	.38	.16	.75	.08	.13	.17	.03		.22			.39	.01								3.89	
Sharon|||	Beaver.....			.11				1.43						.03	.38	.16	.75	.08	.13	.17	.03	.22			.39	.01								
Somerset	Youghiogheny.....		.20				.40			1.00					.15	1.56	.10		.90		.25		.33	.60		T.				.20		.25	5.94	
Springdale|||	Allegheny.....		.06		.34		.03	.27				.03	.01	1.08	.93	.90	.15	.27	.21	.01	.78	.12		.07									5.26	
Uniontown	Monongahela.....			.15	1.58	.07	.17						.05	.63	.02	.09	2.10	.56	.13	.35	.14	.65		.21							.07		6.97	
Unity Reservoir††	Youghiogheny.....		.02		.64	.68	.08	.38				.15		1.78		.32	.25	.40			.57	.28	.65		.30						.03		5.93	
Vandergrift	Conemaugh.....		.17	.03	.10	.18		.90					.46	.86	.28	1.01	.18	.17			.28	.45		.20							.17		5.87	
Warren	Allegheny.....		1.50	.32		.30	.48	.32	.05		.02	1.62	.10	1.64		.40	.10	.14				.48	.03		.44			.02					7.96	
Washington	Ohio.....		.01	.03	T.		T.	T.					.06		.66	.14	.33	1.25	.40	.02	.96	.89	.10	T.	.25		.01			.26			5.37	
Westford|||	Beaver.....			.72				.94	.60				.47		.42		.32		.20			.45		.22									4.02	
West Newton|||	Youghiogheny.....		.30	.60			.10	.40				.23	.38	.30	1.70	.17	.25	.72	.31	.10	1.55	.15	.01	.17	.04								6.40	
Zelienople|||	Ohio.....			T.	.01	.12	T.	.25	.50	.15			.03	.05	.59	1.07	.75	.04	.15	.01	T.	.34	.07		.07	.01		T.				T.		4.21
Lake Drainage.																																		
Erie***	Lake Erie.....		.36	.27			.22	.26	.10			.01	.89	T.	.20			T.				.09	.26		.06	.37		.02					3.11	
West Bingham	Genesee.....			.07			.06	.73				.04	1.03	.07	.75		.04	.05				.60	T.	T.	1.42			.05					4.91	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of

Daily Temperatures for August, 1926

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Allentown.....	Maximum...	72	92	94	90	85	84	81	81	86	89	95	86	88	89	85	80	83	71	76	71	64	71	75	73	70	80	85	86	92	81	76	81.6	
	Minimum...	64	67	72	71	67	67	68	62	58	58	62	74	69	71	68	68	70	69	58	59	59	57	58	64	64	61	58	59	64	65	53	64.0	
Altoona.....	Maximum...	74	89	87	86	83	86	87	79	81	89	91	85	85	83	77	76	75	74	70	63	57	65	76	73	70	78	78	84	88	80	74	78.8	
	Minimum...	65	63	68	67	62	60	66	60	51	56	65	67	66	70	66	67	69	64	61	57	53	55	62	63	60	51	58	53	59	46	61.4		
Beaver Dam.....	Maximum...	94	91	90	91	91	90	89	80	83	90	96	93	88	87	80	82	82	80	81	74	76	83	86	85	75	80	83	88	90	90	77	85.3	
	Minimum...	71	69	70	67	72	67	67	62	50	55	63	68	70	69	64	69	71	67	66	64	60	60	62	65	57	50	62	54	68	59	49	63.5	
Bradford.....	Maximum...	81	85	86	87	86	87	87	86	85	87	91	84	84	83	82	76	71	80	73	69	60	75	84	77	70	78	81	85	86	79	74	80.4	
	Minimum...	68	70	64	65	63	56	65	47	48	49	64	65	63	63	59	58	61	61	61	54	55	58	58	56	46	45	49	48	59	45	40	55.6	
Brookville.....	Maximum...	85	86	89	87	87	89	79	77	82	87	91	81	87	82	80	79	74	80	73	69	60	75	84	77	70	78	81	85	86	79	74	80.4	
	Minimum...	69	63	63	61	59	57	57	45	41	48	56	63	62	62	57	64	61	61	61	54	55	58	58	56	46	45	49	48	59	45	40	55.6	
Carlisle.....	Maximum...	74	95	92	90	88	88	87	84	88	92	100	96	92	91	85	82	80	75	76	68	62	68	76	80	75	82	86	88	94	90	82	84.1	
	Minimum...	64	72	73	72	68	65	67	62	53	58	67	72	69	72	67	69	70	68	62	59	54	58	64	66	66	60	66	66	60	66	49	64.3	
Catawissa.....	Maximum...	83	95	88	92	87	88	89	86	90	89	97	84	89	87	85	78	83	72	75	70	59	68	74	69	68	80	84	88	91	84	83	82.4	
	Minimum...	60	69	70	66	64	64	68	60	50	52	67	70	65	67	64	65	68	64	58	59	56	56	58	58	52	52	55	60	60	60	46	60.7	
Chambersburg.....	Maximum...	80	94	94	93	89	89	89	84	86	94	100	95	90	92	78	80	78	74	72	65	61	66	77	77	73	80	83	85	91	86	78	83.0	
	Minimum...	66	70	70	70	65	65	69	62	52	60	67	70	71	67	70	71	66	61	58	56	57	64	63	62	53	58	55	63	67	49	63.5		
Claysville.....	Maximum...	95	92	92	95	94	93	87	85	87	92	101	92	94	91	79	82	80	79	73	70	79	88	90	85	76	80	85	88	90	85	80	86.4	
	Minimum...	70	70	69	64	68	67	69	60	46	51	64	72	69	69	64	68	67	67	63	61	59	60	63	65	57	45	62	50	69	61	44	62.4	
Clearfield.....	Maximum...	87	93	91	92	92	92	84	82	90	92	95	86	91	83	85	81	78	84	71	67	59	80	88	74	79	76	88	89	89	82	81	83.9	
	Minimum...	67	66	65	67	63	62	66	60	48	50	60	68	68	65	68	60	64	67	63	62	59	54	57	65	59	48	54	58	67	54	45	60.5	
Coatesville.....	Maximum...	73	90	94	87	83	85	86	81	84	89	94	93	89	91	83	86	83	75	72	68	64	69	76	73	71	78	84	85	92	80	74	81.7	
	Minimum...	64	70	72	73	65	65	68	62	57	56	69	72	68	71	67	66	71	61	59	59	57	56	62	61	63	60	56	58	62	63	53	63.4	
Corry.....	Maximum...	84	85	82	83	81	86	78	78	79	84	86	81	85	78	80	79	77	79	76	71	67	78	84	78	71	79	80	85	84	76	73	79.6	
	Minimum...	68	69	68	64	64	63	63	55	45	54	67	65	66	65	59	61	67	63	64	60	53	58	56	61	58	44	62	49	68	45	41	59.5	
Emporium.....	Maximum...	77	87	82	86	82	88	80	76	78	84	88	77	85	77	78	77	72	75	77	70	72	62	68	76	76	72	74	79	81	85	75	70	77.9
	Minimum...	68	68	68	65	62	61	64	60	50	50	62	68	67	67	60	62	65	63	60	55	58	62	64	58	49	56	55	60	52	44	60	60.2	
Erie.....	Maximum...	83	84	78	78	78	90	74	73	74	85	79	84	82	74	76	80	78	74	77	74	71	78	86	74	70	79	74	93	81	72	69	78.1	
	Minimum...	70	73	72	69	68	69	67	62	56	61	74	68	73	60	64	64	71	67	67	58	55	62	65	65	61	56	66	60	68	57	63	64.7	
Franklin.....	Maximum...	89	87	85	87	91	90	79	76	83	86	94	84	90	77	82	80	77	81	74	69	77	81	86	79	72	79	81	87	88	77	76	82.1	
	Minimum...	61	69	68	62	63	64	64	57	47	47	67	66	65	69	60	63	67	62	61	62	55	57	59	62	56	46	48	42	46	51	46	58.1	
Freeland.....	Maximum...	67	90	85	82	85	80	83	73	80	86	90	80	91	83	80	72	77	66	71	67	57	63	68	72	67	72	77	78	84	76	65	76.4	
	Minimum...	55	60	65	62	58	58	62	55	48	56	64	64	60	58	60	62	55	48	49	48	48	54	56	54	52	54	54	62	54	62	54	56.0	
Gettysburg.....	Maximum...	83	97	96	93	92	88	90	85	89	91	98	99	95	95	84	86	77	79	73	69	66	71	75	79	74	83	88	88	96	87	83	85.5	
	Minimum...	65	65	72	74	66	63	63	60	55	59	71	69	69	71	67	70	70	67	60	60	58	58	63	62	62	55	50	58	65	62	49	63.2	
Greensburg.....	Maximum...	92	91	90	87	90	91	88	80	81	90	96	87	90	86	82	80	77	80	79	69	72	83	87	73	75	78	84	86	88	80	75	83.5	
	Minimum...	71	71	71	68	68	65	67	62	50	55	65	70	70	69	66	68	67	66	63	59	57	60	61	65	60	50	67	72	69	62	48	63.9	
Grove City.....	Maximum...	87	85	85	83	88	89	86	73	77	85	87	83	82	81	76	78	73	78	72	68	67	72	82	73	69	74	79	85	86	75	72	79.0	
	Minimum...	67	70	71	62	65	65	65	58	47	56	65	68	68	63	67	67	63	59	55	55	58	60	60	55	46	60	51	68	43	52	60.5		
Hamburg.....	Maximum...	81	90	91	90	90	83	74	80	83	87	94	89	83	87	83	78	73	78	72	70	66	66	70	74	76	78	83	83	88	83	78	80.9	
	Minimum...	62	64	70	73	64	65	64	59	55	54	69	70	68	69	65	64	64	63	60	60	57	56	61	63	58	59	55	56	59	60	59	61.8	
Harrisburg.....	Maximum...	72	92	91	91	84	84	84	82	87	89	98	90	88	90	83	80	80	74	72	67	62	67	72	76	68	79	84	86	92	80	75	81.3	
	Minimum...	64	71	75	71	70	69	71	66	63	63	73	71	70	73	69	69	73	63	62	61	58	57	65	65	63	60	62	62	66	69	58	66.2	
Hawley.....	Maximum...	78	92	93	89	87	89	86	78	84	83	91	80	90	80	83	78	78	71	69	70	67	65	68	68	68	79	81	85	88	82	71	79.7	
	Minimum...	62	66	67	64	61	72	66	58	47	47	64	68	65	70	58	59	64	56	55	56	52	53	60	56	54	58	53	49	58	55	44	58.6	
Huntingdon.....	Maximum...	76	95	91	90	86	90	86	81	85	93	97	89	90	86	82	82	78	79	72	66	60	68	77	75	74	79	83	87	92	85	77	82.4	
	Minimum...	68	68	67	69	64	64	69	64	49	54	62	71	68	70	66	67	68	64	63	59	58	63	65	62	51	56	53	64	61	47	62.4		
Indiana.....	Maximum...	92	91	90	91	85	85	78	80	88	93	84	86	86	79	79	73	80	75	67	65	70	76	86	68	81	80	85	86	80	75	81.0 ^b		
	Minimum...	70	65	66	65	65	65	65	65	57	65	54	61	68	67	68	62	66	66	63	58	55	57	55	60	57	52	49	49	60	57	45	60.2 ^a	
Johnstown.....	Maximum...	90	94	92	91	92	95	93	83	88	93	97	90	91	86	79	83	73	87	70	65	63	75	88	75	71	81	84	90	92	82	80	84.3	
	Minimum...	72	67	70	71	68	63	69	63	49	56	63	68	67	69	68	68																	

1871

1872

1873

1874

1875

21NP

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXI. SEPTEMBER, 1926. No. 9

GENERAL SUMMARY.

The chief feature of September weather in the State was the heavy rainfall in nearly every section. Rain fell quite generally throughout the State during the first seven days, again on the 9th and 10th, and also during the last seven days. A new record for monthly precipitation for the month was established when 13.90 inches fell at Vandergrift; the previous high total for the month being 12.36 inches, at Clarion, in 1894. Temperature averaged very close to normal, with the highest for the month occurring at most stations on the 22d and 23d in western counties and on the 24th and 25th in the eastern part of the State. A sharp reaction to colder followed this warm spell and 48-hour drops of 40° or more occurred, with minima for the month being registered at most stations on the 26th and 27th. Little frost damage was reported, although temperatures below freezing were registered at a few northern stations as early as the 14th. The abnormally heavy rains of the month retarded farm work to some extent, and fall seeding was hardly finished at the end of the month, while the late potato crop suffered to a great extent from rot. Pastures and meadows were in fine shape at the close of the month and the fruit crop was the best for several years. Corn ripened slowly, due to the adverse weather conditions. Flood stages were not attained at any point during the month and no reports of severe local storms were received.

F. H. A.

TEMPERATURE.

The mean temperature for the State, as computed from the means of 84 stations, was 64.2°, or 0.2° more than the normal for September. The highest mean was 68.4° at Donora, Washington county, and the lowest was 56.5° at West Bingham, in Potter county. The highest temperature recorded during the month was 99° at Gettysburg, on the 25th, while the lowest, 26°, occurred at West Bingham on the 14th. The greatest daily range of temperature was 44°, at three stations: Brookville and Hawley, on the 1st, and at Claysville on the 12th.

PRECIPITATION.

The average precipitation for the State, as determined from the reports of 136 stations, was 5.81 inches, which is 2.33 inches in excess of the normal for the month. The greatest monthly rainfall was 13.90 inches, at Vandergrift, and the least was 2.23 inches at Lawrenceville. The greatest amount recorded in any 24 consecutive hours was 4.25 inches at Clearfield on the 4-5th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total movement, in miles	Velocity, in miles per hour			
				8 a m	8 a m		Average	Highest	Direction	Date
Erie.....	182.5	374.3	49	79	72	9,327	13.0	36	s.	23
Harrisburg.....	139.5	373.5	37	86	80	3,808	5.3	42	w.	6
Philadelphia.....	206.4	373.5	55	82	76	5,380	7.5	34	n.	26
Pittsburgh.....	181.8	374.0	49	86	79	6,103	8.5	32	sw.	5
Reading.....	151.9	373.5	41	76	76	3,748	5.2	23	nw.	25
Scranton.....	152.3	374.0	41	76	76	3,748	5.2	22	nw.	25

* For any five-minute period.

COMPARATIVE DATA FOR SEPTEMBER

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	59.6	.....	.....	4.84	.....	.....	.....	.....	.....
1889.....	61.9	.....	.....	5.05	.....	.....	.....	.....	.....
1890.....	62.2	91	25	4.57	8.54	2.05	10	9	11
1891.....	66.6	94	32	2.39	5.00	1.05	17	8	5
1892.....	62.4	90	29	2.81	4.85	1.18	16	7	7
1893.....	61.2	90	26	2.67	5.59	0.72	9	12	9
1894.....	66.6	95	24	6.30	12.36	2.82	10	10	10
1895.....	67.8	100	24	1.71	5.41	0.37	16	9	5
1896.....	63.6	98	26	4.82	8.57	1.73	13	8	9
1897.....	63.8	100	24	2.18	4.21	0.25	18	7	5
1898.....	66.0	100	25	1.70	3.95	0.38	16	8	6
1899.....	61.8	93	23	4.70	9.31	2.03	12	9	9
1900.....	68.4	100	27	1.77	6.90	0.48	13	10	7
1901.....	63.6	95	29	3.39	6.61	1.64	14	7	9
1902.....	62.7	99	28	4.66	11.95	1.50	12	8	10
1903.....	63.2	94	27	2.09	3.88	0.91	17	8	5
1904.....	63.7	95	21	3.37	7.40	0.82	13	10	7
1905.....	64.0	95	27	3.41	7.30	1.70	15	9	6
1906.....	67.0	99	30	2.46	6.57	0.36	15	9	6
1907.....	64.8	95	29	6.37	11.86	2.18	8	10	12
1908.....	65.6	99	26	1.60	4.06	0.51	17	9	4
1909.....	62.8	96	26	2.27	4.90	0.64	15	9	6
1910.....	65.5	95	32	4.49	8.45	2.26	13	8	9
1911.....	64.9	92	26	5.29	10.18	1.85	13	9	8
1912.....	65.5	95	25	5.57	11.43	2.47	12	7	11
1913.....	62.4	97	24	3.28	8.43	1.24	13	7	10
1914.....	61.5	98	21	0.99	2.67	0.03	18	7	5
1915.....	66.5	96	25	2.56	6.96	0.45	16	9	5
1916.....	62.5	98	23	3.77	8.18	0.91	17	8	5
1917.....	59.0	91	25	2.31	6.34	0.00	16	9	5
1918.....	58.7	88	28	3.97	7.52	1.82	12	8	10
1919.....	64.4	96	28	2.07	4.00	0.46	16	8	6
1920.....	64.5	91	24	3.99	9.40	0.97	16	8	6
1921.....	68.9	98	31	4.68	11.48	1.47	13	9	8
1922.....	66.3	100	22	1.48	3.73	0.17	19	7	4
1923.....	64.8	92	22	3.55	8.68	1.54	13	10	7
1924.....	59.8	99	26	6.44	11.72	3.46	11	7	12
1925.....	67.5	99	24	2.80	7.63	0.86	11	12	7
1926.....	64.2	99	25	5.86	13.90	2.23	11	7	12

RIVER CONDITIONS

Stations	Rivers	Mean stage		Date	Lowest stage		Date	Flood stage
			
Port Jervis.....	Delaware.....	2.5	3.3	7	1.9	20	18	
Phillipsburg.....	Delaware.....	2.0	4.8	7	1.0	30	22	
Mauch Chunk.....	Lehigh.....	3.9	5.0	7	3.5	1	12	
Wilkes-Barre.....	Susquehanna.....	4.4	5.9	27	3.2	25	20	
Williamsport.....	Susquehanna.....	3.8	13.5	6	1.2	24	20	
Harrisburg.....	Susquehanna.....	4.6	7.8	8	3.7	23	17	
Freepoint.....	Allegheny.....	8.0	20.2	6	3.1	21	22	
West Newton.....	Youghiogheny.....	2.6	7.2	26	0.7	21	20	
Lock No. 4.....	Monongahela.....	15.8	22.7	27	13.0	20	31	
Pittsburgh.....	Ohio.....	14.0	22.2	6	10.5	21	25	
Beaver Dam.....	Ohio.....	12.7	25.6	7	7.1	23	30	

Climatological Data for September, 1926

stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days			Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear			Pt. cloudy	Cloudy
Atlantic Drainage.																				
Allentown	Lehigh	254	14	63.8	.....	90	25	45	11†	33	4.23	+0.88	1.06	0	12	16	8	6	e.	John A. Frick.
Altoona	Blair	1,615	39	62.6	-0.1	80	9†	38	27	34	6.18	+3.40	1.89	0	13	12	5	13	e.	Lewis E. Biller.
Bethlehem	Northampton	295	42	67.2	+1.0	90	25	47	15	31	4.54	+1.15	1.48	0	9	19	0	11	e.	Lehigh University.
Biglerville	Adams	652	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Vacant.
Bustleton	Philadelphia	125	7	66.2	.....	90	25	44	27†	37	5.05	.....	1.58	0	9	12	8	10	.....	Experiment Station.
Canton	Bradford	1,300	.....	63.2	.....	81*	25	34*	14	33*	.....	.....	.....	.....	.....	.....	.....	.....	.....	Marble Laboratory, Inc.
Carlisle	Cumberland	467	59	67.1	+2.4	89	25	40	27	40	4.57	+0.95	1.54	0	12	15	4	11	sw.	Prof. C. E. Miller.
Catawissa	Columbia	520	29	63.2	-0.3	84	25	89	14	39	4.28	+0.88	1.12	0	12	12	4	14	.....	H. H. Yetter.
Center Hall	Center	1,272	30	60.6	-1.4	89	22	32	14	40	4.23	+1.24	1.45	0	10	14	2	14	.....	S. W. Smith.
Chambersburg	Franklin	580	26	65.6	-0.3	86	25	41	27	35	3.38	+0.64	1.35	0	13	9	4	17	ne.	William B. Spear.
Clearfield	Clearfield	1,120	16	65.0	+1.8	89	22	37	14	43	8.19	+4.41	4.25	0	11	9	8	13	e.	E. W. Hess.
Coatesville	Chester	380	38	64.1	-2.0	89	25	38	27	36	4.50	+0.60	1.06	0	13	10	8	12	ne.	Prof. W. T. Gordon.
Colebrook	Lebanon	560	16	63.6	-0.5	82	25	42	27	34	3.84	+0.31	1.27	0	15	13	4	13	e.	Wm. A. Rorer.
Emporium	Cameron	1,050	38	60.9	-0.5	82	22	35	14	36	5.98	+2.54	1.90	0	10	14	6	10	e.	T. B. Lloyd.
Ephrata	Lancaster	1,380	25	65.0	-0.5	89	25	43	27	32	4.47	+0.99	1.24	0	12	11	5	14	n.	Ira J. Keath.
Freeland	Luzerne	1,970	11	57.4	.....	80	24	36	27	31	5.93	.....	1.51	0	13	12	4	14	se.	Theo. Reichmann.
George School	Bucks	190	19	66.0	+1.1	89	25	43	27	36	4.24	+1.22	1.23	0	11	17	3	10	e.	Prof. N. W. Swayne
Gettysburg	Adams	600	52	67.3	+2.3	99	25	44	11	37	4.92	+1.55	0.95	0	17	9	4	17	w.	Col. E. B. Cope.
Gordon	Schuylkill	840	22	62.2	+0.4	83	25	35	11†	39	4.65	+0.19	1.18	0	13	14	2	14	e.	Capt. J. G. Johnson
Gouldsboro	Wayne	1,875	2	57.8	.....	78	16†	30	27	41	4.31	+0.99	1.40	0	11	15	2	13	sw.	Gustav Holtz.
Hamburg	Berks	535	33	6.40	-1.5	86	25	39	27	34	3.74	-0.46	1.12	0	10	11	9	10	w.	State Sanatorium.
Hanover	York	600	22	66.5	-0.7	90	25	45	27	31	4.31	+1.46	1.12	0	13	12	5	13	s.	Mrs. Mabel C. Wolcott.
Harrisburg	Dauphin	361	56	64.8	-1.0	87	25	45	27	31	5.12	+2.27	1.75	0	10	6	8	16	ne.	U. S. Weather Bureau.
Hawley	Wayne	900	7	60.4	.....	81	25	34	1	44	3.91	.....	1.50	0	10	16	4	10	e.	J. S. Pennell.
Holtwood	Lancaster	200	11	66.0	.....	90	25	46	27	29	3.62	+1.25	0.80	0	12	9	7	14	.....	H. W. Lowy, C. E.
Huntingdon	Huntingdon	650	38	64.8	+0.5	85	6	41	14†	36	5.57	+2.15	1.93	0	15	11	5	14	e.	Prof. W. J. Swigart.
Hyndman	Bedford	977	.....	66.6	+2.1	87	12†	40	11	42	6.78	+3.62	3.44	0	13	5	6	19	.....	John S. Madore.
Lancaster	Lancaster	255	38	67.0	+2.5	95	25	39	27	43	3.13	-0.21	0.85	0	9	14	7	9	e.	Supt. of Water Works.
Lawrenceville	Tioga	1,000	28	61.9	+0.6	83	24	38	14	38	2.23	-0.80	0.70	0	8	12	2	16	.....	C. P. Darling.
Lebanon	Lebanon	469	85	64.2	-1.0	90	25	42	27	33	5.48	+2.30	2.05	0	13	12	5	13	e.	S. B. Benzing.
Lewisburg	Union	450	51	65.0	+3.0	88	23	41	27	37	4.73	+1.20	1.23	0	14	11	5	14	s.	Prof. W. G. Owens.
Lock Haven	Clinton	560	36	66.2	+1.5	85	25	43	14†	37	6.19	+2.69	3.04	0	12	11	9	10	ne.	John P. Anthony.
Lykens	Dauphin	680	11	64.2	0.0	87	25	35	14†	41	5.22	+0.59	1.32	0	13	14	5	11	ne.	Susquehanna Collieries Co.
Mauch Chunk	Carbon	600	35	63.4	-0.6	86	25	39	14	41	6.16	+2.29	2.21	0	10	15	2	13	se.	R. K. Wintermute.
Mifflintown	Juniata	445	22	64.4	+0.6	87	25	40	27	36	4.65	+0.86	1.03	0	16	10	4	16	e.	Wellington Smith.
Montrose	Susquehanna	1,720	23	59.7	-0.4	88	3	36	27	35	3.57	-0.35	1.25	0	8	11	10	9	s.	Silas Jagger.
Mt. Pocono	Monroe	1,658	23	56.2	-1.9	74	16	34	14	34	6.57	+1.68	2.30	0	8	13	7	10	nw.	Cecil J. Hoskinson.
Muncy Valley	Sullivan	1,045	14	60.4	+1.0	81	25	36	27	40	5.48	+2.00	1.29	0	10	11	8	11	sw.	A. H. Boatman.
Narberth	Montgomery	300	7	65.4	.....	88	25	44	27	30	5.02	.....	1.25	0	12	12	8	10	ne.	Charles Decker.
Neshaminy Falls	Bucks	60	37	64.0	-1.4	89	25	43	27	32	4.47	.....	1.27	0	12	11	12	7	n.	North Springfield Water Co
Palmerton	Carbon	398	9	62.2	.....	86	25	38	11	39	4.23	.....	1.10	0	15	15	9	6	ne.	F. G. Breyer.
Philadelphia	Philadelphia	114	55	67.6	-0.4	89	25	51	27	24	4.88	+1.50	1.84	0	10	8	10	12	ne.	U. S. Weather Bureau.
Philadelphia-Gtn.	Philadelphia	113	1	67.6	.....	89	25	49	27	26	5.05	.....	1.63	0	10	11	9	10	.....	Julius Bernstein.
Phila. Navy Yard	Philadelphia	12	10	67.3	.....	89	25	50	27	26	4.23	.....	1.43	0	10	.....	.....	.....	.....	Commandant, Navy Yard.
Phila. Point Breeze	Philadelphia	90	1	68.1	.....	89	25	50	27	22	4.75	.....	1.50	0	9	8	12	10	e.	Atlantic Refining Co
Phoenixville	Chester	100	15	66.4	+2.8	91	25†	42	27	40	3.71	+0.63	0.73	0	9	15	9	6	e.	North Springfield Water Co
Quakertown	Bucks	496	41	63.4	-0.2	89	25	38	27	36	3.83	+0.17	1.26	0	14	12	5	13	ne.	John E. Benner.
Reading	Berks	325	56	65.2	-1.1	90	25	46	27	31	4.07	+0.42	1.57	0	11	9	8	13	e.	U. S. Weather Bureau.
Scranton	Lackawanna	805	31	62.0	-0.9	81	25	41	1	36	3.80	+0.94	1.10	0	10	6	7	17	n.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	36	63.6	-0.8	84	25	38	1	42	4.96	+1.30	1.00	0	12	10	5	15	s.	Dr. George E. Fisher.
Shawmont	Philadelphia	51	30	67.2	.....	87	25†	48	27	33	4.60	+1.37	1.45	0	9	8	14	8	sw.	W. S. Guiles.
State College	Center	1,217	41	62.8	+0.4	82	6†	40	14	34	5.79	+2.73	1.93	0	12	8	10	12	sw.	C. A. Kern.
Towanda	Bradford	754	31	61.3	-0.7	83	25	38	14†	38	2.84	-0.19	0.68	0	9	10	5	15	e.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,419	60	60.0	+0.3	82	25	34	14	39	2.76	-0.45	0.57	0	8	18	1	11	sw.	George W. Hill.
West Chester	Chester	455	88	64.5	-0.8	87	25	44	27	32	3.75	-0.17	0.79	0	13	13	9	8	sw.	Arthur M. Hay.
Williamsport	Lycoming	521	39	64.4	+0.5	87	25	41	14	33	5.13	+1.92	1.07	0	10	13	3	14	nw.	George A. Beck.
York	York	400	38	66.4	+0.8	91	25	39	27	38	3.39	+0.06	0.73	0	13	9	10	11	n.	York Water Co.
Ohio Drainage.																				
Beaver Dam	Beaver	700	33	67.2	+1.0	95	5	40	26	34	9.48	+6.89	3.81	0	16	9	9	12	ne.	U. S. Engineer.
Bradford	McKean	1,427	11	62.2 ^a	.....	84 ^d	20†	35 ^d	14	41 ^d	6.39	.....	2.21	0	11	8	8	14	sw.	City Engineer.
Brookville	Jefferson	1,173	35	60.7 ^b	+1.0	85 ^b	22	34 ^b	11	44 ^b	5.75	+2.43	1.21	0	11	16	4	10	.....	John Fawcett.
Claysville	Washington	1,150	22	67.7	+2.5	90	4†	40	11†	41	7.97	+5.17	1.53	0	13	14	5	11	s.	J. L. Melvin.
Corry	Erie	1,430	14	62.2	+2.5	83	19†	35	26	40	7.97	+3.88	2.19	0	13	12	9	9	.....	Nevin R. Dickson.
Derry	Westmoreland	1,172	29	66.0	+0.6	87	22	41	11†	38	9.00	+6								

Daily Precipitation for September, 1926

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh	.88	.38			.03	1.03	.22	T.		.04													.07	.07			.82		.05	.53	.11		4.23
Altoona	Juniata	1.22	.01	.21	1.89	.37				.12														1.06	.20	.83	.08		.15	.02	.02		6.18	
Ansonia|||	W. Br. Susq.	T.	.39	.03		.49	.23	.02			.12							.33							.79	.03	.42		.52	.08			3.45	
Baker's Summit	Juniata	.86	.01	.15	.77	.29				.14	.03													1.06	.10	.77			.13	.08			4.39	
Bethlehem	Lehigh	1.18			1.11	.37																		.06	.07		1.05		.20	.38	.12		4.54	
Biglerville	Susquehanna																																	
Bloersville	Lower Susq.	.75		.10	.40	1.05				.20		.40			.15			T.						.75	.82	.02	.62		.05	.35	.23	T.	5.89	
Bustleton	Lower Del.	1.58	T.		.24	1.25				.83											.08			.33			.23	T.		.37	.14		5.05	
Canton	N. Br. Susq.	.60			.65	.32				.20							.02							.42	.79								3.00	
Carlisle	Lower Susq.	.91	.06	.02	T.	1.54				.16			.02			.10	.82	T.						.10	.33	T.		T.	.66	.35	T.		4.57	
Catawissa	N. Br. Susq.	.02	.84		T.	1.12	.15			.22							.05							.22	.03	.60		.07	.94	.02			4.28	
Center Hall	Susquehanna	.88		.14	.46	1.45				.12													.10	.62		.12	.22	.12					4.23	
Chambersburg	Potomac	.68		.19	.13	.38				.02											T.			.06	.27	.04	.17	.01	.23	.18	.02		3.38	
Clearfield	W. Br. Susq.	1.52		.07	.42	.88				.05							T.	T.	.15					.45	.20	.10		.07	.45				8.19	
Coatesville	Lower Del.	.96	.02		.03	.81				1.01	.05													.02	.18	.08	.13		.58	.38	.25		4.50	
Colebrook	Lower Susq.	1.27	.01	.01	.10	.76				.22	T.			T.					.03	T.				.10	.10	.16	.29	.06	.55	.10	.08		3.84	
Conshohocken	Schuylkill	.48			.46	1.81				.75														.14				.23	T.		T.	.65		4.52
Cresson|||	Juniata	.34	.92	.03	.06	1.19	.97			.10														.03	.40	.32	.52	.76	.22	.03			5.89	
Doylstown	Lower Del.	1.49			.16	.33				.88															.02	.08	.19	T.	.12	.20	.17		3.64	
Driftwood|||	W. Br. Susq.	.74	.06	T.	1.51	.50	.05			.18							.04								.64	.32	1.16		.40	.05	.04		5.59	
Emporium	do	.47		.21	1.05	.90				.08							.02				T.			T.	.83	1.90		.06	.46				5.98	
Ephrata	Lower Susq.	1.24		T.	.20	.40	.02			1.22															.08	.01	.22	.03	.56	.31	.18		4.47	
Forest City	N. Br. Susq.	.27			.92	.45	.02			.19														.37		.51	T.		.41	.03		3.17		
Freeland|||	Lehigh	.80	.71		.47	1.12	.40			.24									T.					.01	.14	.26	.98		.21	.54	.05		5.93	
George School	Lower Del.	1.23	T.		.40	.29	1.15			.57															.02	.02	.19	T.	.05	.26	.06		4.24	
Gettysburg	Potomac	.20	.07	.22	.17	.90	.10			.95	.01													.07	.68	.15	.20	.05	.65	.36	.04		4.92	
Girardville	Susquehanna	1.20		.08	.88	.47				.10				T.			T.	T.						.36	.17	.35	.15	.15	.31	.28			4.50	
Gordon	Lower Susq.	1.18		.03	.60	.84				.06	.02													.18	.28	.48	.19	.03	.60	.16			4.65	
Gouldsboro||	Lehigh	.80	.60		.64	.60	.23			.22									.08						.10		.32		.20	.52			4.31	
Graterford	Schuylkill	.51	.14		.08	.21	.74			.12	.51														.06	.03	.18	.04	.11	.06	.18		2.97	
Hamburg	Schuylkill	1.12			.86	.20				.05														.15	.17		.52	.61	.02	.04			3.74	
Hamlin	Upper Del.	.10	.82		.10	1.40	.20			.12								.02							.30	.90		.25	.75	.06	.02		5.04	
Hanover	Lower Susq.	.17	.06	.07		.70	.02			1.12														.09	.59	.10	.31		.74	.31	.03		4.31	
Harrisburg**	do	1.75		.01	.71	1.00				.17				T.				.03						.35	T.	.13		.15	.82	T.	T.		5.12	
Harrisburg East	do	1.68	.03	T.	.18	1.54				.18								.02							.33		.15	.05	.66	.22	.02		5.06	
Harrisburg North	do	1.48	.08		.18	1.36				.55	.02							.09							.41		.15		.49	.35			5.16	
Hawley|||	Upper Del.		.59		.20	1.30	.12			.19								.01								.58		.41	.47	.04			3.91	
Holtwood||	Lower Susq.	.14	.25	T.	.08	.03	.44			.80															.11	.59	.42		.11	.63	.02		3.62	
Huntingdon	Juniata	1.18	.01	.02	.93	.37				.39	.02							.04							1.82	.11	.40	.04	.06	.15		.03	5.57	
Hyndman	Potomac	.89	.01	.21	1.03	.43				T.															3.44	.03	.40	.01	.06	.15	.01	T.	6.78	
Lancaster	Lower Susq.	.45			.05	.30				.85															.14		.20		.35	.65	.14		3.13	
Lansford|||	Lehigh	.54	.27	.02	*	* 2.50				.06														T.	.32	.17	.15		.37	.18	.43	.02	5.03	
Lawrenceville	N. Br. Susq.	.05		T.	.19	.29				.23								T.							.70	.18	.15		.44				2.23	
Lebanon	Lower Susq.	2.05	.27	T.	.06	.72	.58			.62								.02						T.	.24	T.	.08		.23	.52	.03	.06	5.48	
Lewisburg	W. Br. Susq.	1.06	.02	.02	1.23	.30		.10	.03									.15							.52	.18	.15	T.	.97	.10	.01		4.73	
Lloyd	do		.38		.82	.32																			.40	.51			.64	.16			3.38	
Lock Haven	do	1.10		.02	3.04	.36				.04															.16	.34	.32	.18	.03	.56	.04		6.19	
Lykens	Susquehanna	1.32		T.	.33	.97	.04			.12	.02														.18	.34		.49	.03	.65	.72	.01	5.22	
Mauch Chunk	Lehigh	1.00			2.21	.59																		*	.82	.14	.57	.08		.44	.31		6.16	
Mifflintown	Juniata	1.03		.07	.63	.86	.03			.57	.05							.05							.23	.23	.53	.02	.02	.24	.06	.02	4.65	
Monroese	N. Br. Susq.	.35			.62	.20				.40																.45	.22		1.25	.08			3.57	
Morris Run	N. Br. Susq.	.48			.48	.50						T.	.01												.60	1.19	.20		.75	.03			4.24	
Mt. Pocono	Upper Del.	2.30			1.6																													

Daily Precipitation for September, 1926—Continued from page 43

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio Drainage.																																	
Beaver Dam|||	Ohio	1.60	.11	.03	1.26	1.07	.03		.02	.02				.01			.73							.09	3.81	.06	.45		.14	.05			9.48
Beaver Falls|||	Beaver	2.00	.14	.02	1.12	.72	.01		.06	.15				.02			.92							.05	2.76	.23	.15	T.	.15	.05			8.55
Bradford	Allegheny			.35	.69	.65			1.28				.03	.02			1.05							.16	2.05	.85		T.	.26				6.39
Brookville	do	.60	.25		.40	1.15	.49		.15								.45						T.	.25	.35	1.21		.45				5.75	
Claysville	Ohio	1.43			1.15	1.00	1.53		.08					T.			1.24							1.17	.08	1.04	.06	.03	.15	.01	T.		7.97
Cloef†	Allegheny	.40	1.53		2.00	1.35	.86			.22				T.			.25							.38	1.57	.97		.15	.25			9.93	
Clymer††	Conemaugh	1.58		.27	1.82	.70				.22				*			.27							.99	1.57			.06	.20			7.68	
Confluence|||	Youghiogheny	1.67	.37		.10	.40	1.20			.05							.28					.18		.94	.12	.20	.70		.25	.13		6.59	
Coraopolis|||	Ohio	.93	.01	.25	3.17	1.03	T.			.06				T.			1.72							.21	2.01	.92	.35	T.	.13	.05		10.84	
Corry	Allegheny	.07		1.00	.74	.79			1.17				T.	.05		.59	.24	.01						.53	1.66	.87	T.		.25			7.97	
Coudersport	do	.25			1.05	.27			.53															.22	1.18	.63		.47				4.60	
Creekside	Allegheny	1.72		*	*	2.96			.31					.03		.37								*	3.21	2.91		*	.28			11.75	
Derry	Conemaugh	1.99		.74	3.47	1.05											.13							.23	.20	.70	.10	.04	.28			9.00	
Donora	Monongahela	1.24		.03	.50	.83	.57		.06							.50	.07						.37	.08	.16	1.38	.15	.02	.13	.04		6.13	
Ebensburg	Conemaugh	1.12	.04	.14	2.24	.61		.07																1.20	.66	1.06	.04	.16	.16	.03		7.53	
Elk Lick	Youghiogheny	2.22		.08	.31	.75			.09								.32							.75		1.23		.18	.28			6.21	
Falls Creek	Allegheny	1.12		.21	2.15	.48			.08							.24	.03						.03	.24	.77	.80		.56				6.71	
Franklin|||	Allegheny	.88	.05	.08	1.53	.43	.39		.35	.31				.17		1.13								.94	.12	1.10	.15		.23	.23		8.34	
Freeport|||	Allegheny	1.69	.17	.03	2.07	.94	.05		.20	.20							.65							.07	3.55	.05	.85		.10	.10	.03	10.75	
Greensburg	Youghiogheny	T	1.73	T.	.21	2.21	.67		.02				.01			.43		T.						.30	.04	1.18	.06	.06	.16			7.07	
Greenville	Beaver	.80	T.	2.70	.83	.49		1.51					.48		1.16	.24	T.							.40	1.00	.97		.12				10.70	
Grove City	Beaver		1.00	T.	2.45	.25	1.19		.87	.02			T.			2.29	.30							.23	1.31	.41	.01	.18	T.			10.51	
Herrs Isl. Dam|||	Ohio	.69	.06	.10	2.20	.73	.01		.03	T.			T.			1.63								.94	.12	1.10	T.	.14	.04			7.79	
Indiana	Conemaugh																																
Ingram	Ohio		T	.79	T.	.60	2.17	1.31		.04						.05	1.01				.04		.15	.60	.64	1.01	.02	.01	.21	T.		8.65	
Irwin	Youghiogheny	1.13		1.21	1.90	.55			T.							.60								.72	.10	1.23	.07	.08	.17	.02		7.78	
Johnstown	Conemaugh	T	1.76		.82	1.62	.44		.10				.01			.02								.39	.03	.52	.30	.10	.19		.01	6.31	
Kregar|||	Youghiogheny	.77	.40	1.86	.59	.68		T.	T.				T.			.16							.23	.61	.74	1.30	T.	.16	.10			7.60	
Linesville|||	Beaver	.66		.72	.93	.54	.28		.28	1.07			.06			.23						.04		.01	3.62	1.06	.08		.25	.01		9.84	
Lock No. 4|||	Monongahela	.85	.10		.81	.67	.03		.08				.01			.65								.65	.22	1.16	.82		.13	.04		6.22	
Lycippus	Conemaugh	1.29		.82	2.00	.80			T.				T.			.12								.51	.12	1.84	.17	.01	.14			7.82	
Martin	Monongahela																							.71	.55	.48	.08	.02	.18	.03		8.50	
Mount Lebanon	Ohio	.96	T.	1.00	1.57	.86			.16							1.90								.71	.55	.48	.08	.02	.18	.03		8.50	
New Castle|||	Beaver	.08		1.05	.82				.44	.08	.01		.07			.94	.02						.03	1.10			.32	.19				5.15	
Newell	Monongahela	.95		.15	.11	.43		T.	.03	T.			T.			.40								1.28	.46	1.40	.10	.04	.10	.02		5.45	
Parkers Landing|||	Allegheny	1.40	T.		2.70	1.35	.12		.10	.25			T.			1.03								T.		.80		.25		.28	T.	8.28	
Pennline|||††	Beaver	.68		.29	.95	.25	.19		.44	.76			.07			.91									3.87	1.11	.06		.21			9.79	
Pittsburgh***	Ohio	.65	.26	1.58	1.07	.30			.04					T.		1.60		T.				.15	.40	.48	.74			T.	.18	T.		7.45	
Ridgway†	Allegheny	1.08		.20	2.07	.57			.51							.12										2.60		.47				7.62	
Saltsburg|||	Conemaugh	.63	.14		3.35	.73	.14		.07							.24								T.	.72	.88	.78		.18	.07		7.93	
Saegerstown|||	Allegheny																																
Sharon|||	Beaver	T	1.25		.57	1.89	.78	.05	.45	.19			.09		.76									T.	1.56	.03	.10		.24			7.90	
Somerset	Youghiogheny																																
Springdale|||	Allegheny	.81	.17	.11	3.40	.88	.04		.05							1.10								.08	2.23	.93	.47	.02	.15	.08		10.52	
Uniontown	Monongahela	1.78	.02	.58	.34	.17			.04							.18						.17		T.	1.05	.03	1.05	.16	.05	.22	.02		5.86
Unity Reservoir††	Youghiogheny	1.82		.34	1.70	.70			.32							.38								.24	.16	.60	.10	.06	.13			6.22	
Vandergrift	Conemaugh	1.35		1.20	2.20	2.40			.32							.45								.06	3.72	1.50	.15		.50	.14		13.90	
Warren	Allegheny	.15		.20	.64	.76			1.42					.05		.06	.17								.18	2.70	.67		.14			7.14	
Washington	Ohio	.37	.47		.34	2.06	.66		.07					T.		1.48	.03	T.					.87	.50	.03	.96		.04	.15			8.03	
Westford|||	Beaver		.70			1.03	1.50		T.		2.22				.09		.42								1.18	1.07	.07		.19			8.47	
West Newton|||	Youghiogheny	1.73	.02		1.10	.85	.02		.15				.01			.65								.35	.18	1.10	.45	.02	.18	.05		6.86	
Zellenople|||	Ohio	1.45	.14	.17	1.35	.97	T.		.03	.06				.02		3.05	.02							.06	2.52	.18	.08	T.	.14	.02		10.26	
Lake Drainage.																																	
Erie***	Lake Erie	T		.73	.26	.14			.46				.22	T.		1.55	.10				T.			1.29	.77	.18		.03	T.			5.73	
West Bingham	Genesee			T.	.30	.57			1.20				T.				.11								.98	.69	.15		.42	T.		4.42	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. †† Post Office addresses are as follows: of Blossville; of Cloe, Punxsutawney; of Clymer, Indiana; of Paupack Electric, Hawley; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Analomink; of Unity Reservoir, Greensburg. ‡ Mdt. to mdt.

Daily Temperatures for September, 1926

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum...	80	63	75	64	67	74	79	80	80	75	76	80	73	72	74	82	71	76	78	84	79	74	75	85	90	64	54	53	57	59	.....	73.1
	Minimum...	48	54	56	57	57	58	66	52	54	57	45	47	49	47	48	52	58	60	57	56	59	56	62	66	71	50	45	47	49	60	.....	54.4
Altoona.....	Maximum...	79	67	61	60	67	79	73	77	80	70	72	80	70	68	67	78	80	70	80	79	76	80	78	79	79	69	49	49	55	66	.....	70.9
	Minimum...	47	59	57	57	57	61	65	50	58	45	42	46	59	42	56	57	64	60	65	61	58	56	65	66	68	44	38	45	48	52	.....	54.3
Beaver Dam.....	Maximum...	80	69	74	84	95	84	78	84	82	72	75	83	79	77	85	83	79	84	81	79	80	88	84	83	82	58	57	57	61	69	.....	77.5
	Minimum...	50	60	63	63	68	68	55	55	64	46	46	49	56	50	59	64	63	57	59	63	57	58	67	71	57	40	45	50	52	53	.....	56.9
Bradford.....	Maximum...	76	73	73	69	71	74	77	80	68	.....	76	73	67	73	69	74	78	.....	.....	84	82	84	82	82	.....	78	66	54	64	69	.....	73.7 ^d
	Minimum...	38	58	58	59	58	64	49	46	61	.....	36	43	50	35	64	59	50	.....	.....	56	49	47	64	67	.....	37	38	43	45	48	.....	50.8 ^d
Brookville.....	Maximum...	81	69	66	66	80	80	75	82	77	70	75	79	69	73	77	79	78	76	82	80	.....	85	79	81	77	59	53	52	62	.....	.....	73.6 ^b
	Minimum...	37	59	60	59	60	55	49	44	49	39	34	38	39	35	58	56	51	50	49	45	.....	43	60	56	43	35	40	46	49	.....	.....	47.8 ^b
Carlisle.....	Maximum...	86	82	75	68	67	84	81	82	82	78	78	83	77	75	84	86	86	74	84	86	88	80	82	87	89	82	65	65	61	61	.....	78.3
	Minimum...	46	64	58	61	60	64	59	51	59	54	42	46	62	42	45	50	65	60	62	62	60	66	66	68	69	49	40	50	51	56	.....	55.9
Catawissa.....	Maximum...	72	74	70	68	72	78	78	82	79	77	77	80	78	75	74	83	75	71	78	82	81	72	83	80	84	66	55	60	65	.....	.....	74.1
	Minimum...	50	66	62	64	44	44	59	48	62	49	40	41	44	39	56	50	60	59	57	54	49	49	65	65	65	44	40	45	45	52	.....	52.2
Chambersburg.....	Maximum...	82	77	66	64	69	82	78	79	83	72	79	84	79	80	88	85	79	85	86	82	84	90	80	86	81	62	59	55	61	60	.....	76.2
	Minimum...	47	64	59	50	60	65	60	51	59	53	44	47	61	49	58	51	62	63	60	56	55	56	64	65	68	49	41	49	51	56	.....	56.1
Claysville.....	Maximum...	85	75	79	90	85	82	80	86	83	72	79	84	79	80	88	85	79	85	86	82	84	90	80	86	81	62	59	55	66	71	.....	79.4
	Minimum...	46	68	63	63	68	65	57	50	67	47	40	40	57	50	57	63	59	55	57	61	56	65	64	72	57	40	41	49	50	64	.....	66.0
Clearfield.....	Maximum...	87	77	65	64	68	83	81	85	81	78	81	82	78	75	77	83	81	72	88	84	84	89	84	82	83	70	69	52	60	67	.....	77.0
	Minimum...	44	59	60	59	57	60	51	50	57	42	40	44	55	37	48	54	64	54	60	58	60	48	65	66	68	42	39	45	48	53	.....	52.9
Coatesville.....	Maximum...	78	70	70	65	64	81	78	79	82	72	74	78	74	70	74	79	74	73	76	83	79	76	80	86	89	73	55	54	58	61	.....	73.5
	Minimum...	46	56	56	58	57	63	62	62	63	57	40	42	57	44	42	50	60	60	54	56	60	55	63	69	70	45	38	50	50	55	.....	54.7
Corry.....	Maximum...	80	76	73	68	89	73	73	80	72	67	76	71	66	76	78	74	71	82	83	76	82	83	76	83	75	60	58	54	64	69	.....	73.3
	Minimum...	41	58	55	61	59	61	54	44	58	39	36	47	49	38	56	62	61	49	56	59	48	67	61	66	55	35	38	43	41	46	.....	51.1
Emporium.....	Maximum...	75	68	69	65	66	78	73	76	76	67	70	74	65	68	68	73	69	79	77	75	82	81	81	75	56	55	52	58	65	.....	70.3	
	Minimum...	44	60	61	60	59	62	53	48	58	41	40	44	48	35	52	55	60	51	60	58	47	46	62	69	50	39	46	48	50	.....	61.6	
Erle.....	Maximum...	79	68	70	73	79	76	69	79	74	65	71	73	67	77	73	67	77	80	77	82	72	71	80	74	83	72	52	59	60	66	.....	71.2
	Minimum...	54	59	58	64	63	58	54	57	49	49	55	51	47	62	66	60	58	61	59	53	65	61	66	51	45	44	48	50	53	.....	56.1	
Franklin.....	Maximum...	81	74	75	73	80	77	77	82	75	70	74	80	79	80	80	76	80	83	79	78	86	77	83	79	59	58	58	63	68	.....	74.9	
	Minimum...	44	46	62	61	61	66	56	47	49	42	39	42	49	39	39	61	63	52	54	56	49	51	56	65	66	36	40	44	47	49	.....	51.0
Freeland.....	Maximum...	70	62	72	60	54	70	74	72	68	66	68	73	66	55	64	75	71	68	72	72	68	70	78	80	79	67	54	46	52	55	.....	66.7
	Minimum...	42	52	48	50	48	52	54	47	56	41	42	46	44	38	44	44	58	50	49	54	48	49	60	62	64	38	36	42	41	48	.....	48.2
Gettysburg.....	Maximum...	84	82	71	69	70	83	82	83	83	74	78	84	87	74	75	85	86	73	79	87	84	77	86	88	99	76	64	62	62	61	.....	78.3
	Minimum...	48	64	58	58	58	62	60	52	64	54	44	47	60	48	55	50	62	61	60	56	56	58	66	68	70	49	50	50	51	51	.....	56.3
Greensburg.....	Maximum...	81	75	74	79	84	81	75	86	81	70	79	81	71	77	82	81	79	80	84	81	84	88	83	83	80	60	58	54	65	70	.....	76.9
	Minimum...	47	60	63	62	64	66	59	52	65	47	43	50	58	48	58	69	60	63	60	51	60	55	60	67	71	58	43	44	49	50	.....	56.3
Grove City.....	Maximum...	80	75	70	68	78	79	80	79	73	68	72	77	79	72	80	74	73	78	79	79	79	75	85	77	82	78	53	54	53	59	.....	73.1
	Minimum...	47	65	52	54	59	49	56	63	65	43	42	48	51	45	58	63	63	55	58	60	51	60	66	69	51	39	42	47	40	49	.....	54.0
Hamburg.....	Maximum...	78	77	76	70	74	75	77	77	78	73	73	77	73	68	81	80	73	72	80	83	79	80	79	82	86	83	65	56	58	.....	74.7	
	Minimum...	44	57	62	64	59	60	64	49	60	46	41	43	44	41	50	51	58	60	54	53	52	53	58	60	67	51	39	49	50	55	.....	53.2
Harrisburg.....	Maximum...	83	66	72	66	65	80	77	78	79	70	75	80	70	72	78	77	67	75	80	80	75	80	85	87	59	52	54	59	60	.....	72.4	
	Minimum...	52	59	59	59	58	64	61	55	66	54	50	50	56	49	57	53	66	61	60	58	61	60	68	71	57	48	45	50	50	.....	57.1	
Hawley.....	Maximum...	78	72	72	68	60	76	74	80	73	75	78	77	68	66	71	77	71	75	74	79	78	70	70	80	81	79	54	52	54	.....	71.5	
	Minimum...	34	54	48	51	53	56	54	42	53	68	35	40	56	35	37	46	58	56	53	48	49	42	63	64	64	45	35	46	45	.....	49.4	
Huntingdon.....	Maximum...	82	78	66	65	66	85	77	81	83	77	74	82	75	71	70	80	83	70	82	81	80	81	80	81	83	72	55	54	60	.....	74.4	
	Minimum...	46	61	60	61	60	64	56	52	58	49	44	47	60	41	58	56	65	63	55	60	50	52	66	66	46	41	49	51	55	.....	55.3	
Indiana.....	Maximum...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Minimum...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Johnstown.....	Maximum...	86	71	65	65	85	82	71	84	83	75	81	85	73	75	73	83	83	70	83	84	84	89	83	82	79	62	54	54	65	.....	75.7	
	Minimum...	46	63	61	60	60	65	60	52	61	49	46	48	57	50	57	59	65	63	57	61	56	55	67	67	59	46	43	48	52	57	.....	56.3
Lancaster.....	Maximum...	84	75	75	74																												

7113
1000000

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXI.

OCTOBER, 1926.

No. 10

GENERAL SUMMARY.

Although October averaged over an inch above the normal in precipitation and slightly below the seasonal average in temperature, the month was free from any extremes. The first week was warm, with monthly maxima occurring at most stations on either the 4th or 5th. The remainder of the month, except the last three or four days, averaged slightly below the normal, with minima for the month being registered at most stations on the 26th or 27th, and killing frosts being reported generally on those dates. Precipitation was well distributed throughout the month, with heavy rains occurring on the 6th and again on the 25th. On the latter date the first appreciable snowfall occurred at several stations in western Pennsylvania. High winds and heavy rains on the 25th caused considerable minor damage in Philadelphia, although the greatest damage by this storm occurred at Camden, New Jersey, just across the Delaware river from Philadelphia. In Philadelphia the damage consisted merely of branches blown from trees, signs blown down and flooded cellars. The frequent rains of the month kept the soil very muddy and hindered farm and field work to some extent. At the close of the month corn cutting was still under way in most sections, although some husking had been done. The corn crop was about an average one, but not quite so good as that of last year. The apple crop had been mostly all gathered, with large yields of excellent quality. Winter wheat made good progress during the month. Pastures and meadows were in excellent condition, due to the frequent rains, and were still furnishing considerable feed for livestock at the close of the month.

No flood stages were recorded in any of the rivers of the State during the month.

F. H. A.

TEMPERATURE.

The mean temperature for the State, as determined from the records of 82 stations, was 51.9°, or 0.5° less than the October normal. The highest mean was 57.0° at Philadelphia Weather Bureau, and the lowest was 45.2°, at West Bingham. The highest temperature recorded during the month was 90°, at Clearfield, on the 4th, while the lowest, 16°, occurred at Gouldsboro on the 27th and 28th. The greatest daily range of temperature was 44°, at Somerset on the 28th, and at West Bingham on the 12th.

PRECIPITATION.

The average precipitation, from rain and melted snow, for the State, was 4.51 inches, an excess of 1.33 inches as compared with the monthly normal. The greatest monthly total was 7.98 inches at Erie, and the least, 2.56 inches, at Philadelphia Navy Yard. The greatest amount recorded in any 24 consecutive hours was 2.96 inches, at Muncy Valley, on the 5-6th. Snowfall for the State averaged 0.2 inch and the monthly totals ranged from 4.3 inches at Corry to "traces" at several stations, mostly in the northern and western part of the State. Twenty-four-hour falls of 4.0 inches were recorded at Corry and Penn Line on the 26th and at Elk Lick on the 25th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity		Wind				
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent		Total move- ment, in miles	Velocity, in miles per hour			
				8 a m	8 p m		Average	Highest	Direction	Date
Erie.....	110.9	343.1	32	76	73	9,919	13.3	38	w.	20
Harrisburg.....	141.5	345.2	41	82	72	4,298	5.8	29	sw.	25
Philadelphia.....	174.9	345.2	51	80	70	6,367	8.6	37	sw.	25
Pittsburgh.....	118.3	344.1	34	87	72	7,586	10.2	40	nw.	18
Reading.....	116.4	345.2	34	81	80	4,155	5.6	27	w.	25
Scranton.....	89.1	344.1	26	89	84	4,851	6.5	29	se.	12

* For any five-minute period.

COMPARATIVE DATA FOR OCTOBER

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	46.3	74	19	4.02	9.18	2.04	9	6	16
1889.....	47.3	83	13	3.85	8.61	1.88	8	9	14
1890.....	50.9	81	21	5.87	8.41	4.03	6	8	17
1891.....	50.6	91	15	3.06	4.46	0.84	11	9	11
1892.....	50.8	83	16	0.72	2.93	0.00	13	11	7
1893.....	53.0	91	17	3.26	6.58	1.18	14	8	9
1894.....	53.6	88	24	4.26	7.66	0.65	12	8	11
1895.....	47.3	76	17	1.99	4.63	0.45	17	8	6
1896.....	48.9	86	18	3.19	5.70	0.94	11	8	12
1897.....	54.2	95	16	1.32	5.93	T.	14	8	9
1898.....	53.8	92	20	5.20	8.62	2.36	11	7	13
1899.....	54.6	94	15	1.55	3.81	0.53	13	8	10
1900.....	58.6	95	19	2.74	5.10	0.80	11	9	11
1901.....	52.2	83	20	1.23	3.35	0.23	16	10	5
1902.....	53.1	89	19	4.64	8.12	1.65	12	9	10
1903.....	53.4	91	20	4.64	10.53	2.07	12	8	11
1904.....	50.6	91	12	2.87	7.11	1.26	15	8	8
1905.....	53.2	90	16	4.23	7.06	2.18	14	7	10
1906.....	52.0	87	14	4.46	8.39	1.97	7	7	17
1907.....	48.2	87	13	3.16	5.64	1.01	16	8	7
1908.....	54.6	93	19	1.95	5.48	0.08	16	7	8
1909.....	48.4	87	15	2.27	4.60	0.70	13	7	11
1910.....	55.6	91	14	1.91	5.23	0.62	16	8	7
1911.....	52.3	83	18	4.83	9.23	2.59	11	7	13
1912.....	54.2	90	23	2.74	5.27	0.90	15	7	9
1913.....	54.9	88	16	5.44	9.62	3.15	10	6	15
1914.....	56.4	91	11	2.35	4.37	0.89	11	9	11
1915.....	54.2	85	17	2.65	5.33	1.00	15	7	9
1916.....	52.1	92	16	2.25	4.45	0.76	18	7	6
1917.....	47.2	84	12	6.38	9.80	3.33	10	10	11
1918.....	55.5	85	19	3.17	2.20	0.24	15	8	8
1919.....	57.5	92	21	4.77	8.04	2.28	9	8	14
1920.....	57.5	88	22	1.67	4.67	0.50	19	7	5
1921.....	52.6	84	3	2.16	6.55	0.40	17	7	7
1922.....	54.8	94	12	2.51	5.60	0.65	18	6	7
1923.....	51.0	87	12	2.38	6.01	0.90	15	8	8
1924.....	52.9	87	14	0.28	2.30	0.00	21	8	3
1925.....	46.1	83	9	4.83	8.90	2.02	6	8	17
1926.....	51.9	90	16	4.51	7.98	2.56	10	9	12

WATER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.6	5.9	26	2.1	4	18
Phillipsburg.....	Delaware.....	3.3	7.3	26	1.6	5	22
Mauch Chunk.....	Lehigh.....	7.4	5.0	27	3.5	3	12
Wilkes-Barre.....	Susquehanna.....	6.8	10.5	27	4.4	5	20
Williamsport.....	Susquehanna.....	4.0	8.2	26	2.5	17	20
Harrisburg.....	Susquehanna.....	5.2	7.1	28	4.3	5	17
Freeport.....	Allegheny.....	9.0	16.9	26	5.5	17	22
West Newton.....	Youghiogheny.....	2.4	5.3	26	1.3	13	20
Lock No. 4.....	Monongahela.....	16.4	20.9	4	13.7	11	31
Pittsburgh.....	Ohio.....	14.3	19.9	27	11.7	18	25
Beaver Dam.....	Ohio.....	12.4	22.1	27	8.6	13	30

Climatological Data for October, 1926

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Prevailing direction of wind	Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 01 in or more	Clear	Pt. cloudy			Cloudy	
Atlantic Drainage.																					
Allentown	Lehigh	254	14			86	4†	31 ^p	29	30 ^p	4.48	+1.07	1.78	0	15	17	11	3	ne.	John A. Frick.	
Altoona	Blair	1,615	39	51.4	-0.5	84	5	28	26†	31	3.87	+1.38	0.97	T.	18	11	9	11	w.	Lewis E. Biller.	
Bethlehem	Northampton	295	42	53.9	-1.6	85	5	29	28	39	6.29	+3.06	1.50	0	10	15	5	11	w.	Lehigh University.	
Biglerville	Adams	652	4																	Vacant.	
Bustleton	Philadelphia	125	7	53.0		87	4†	28	26†	34	3.82		1.30		0	9	11	5	11	w.	Experiment Station.
Carlisle	Cumberland	467	59	54.9	+1.6	88	4†	25	27	35	3.80	+0.12	1.10	0	14	14	9	12	s.	Prof. C. E. Miller.	
Cartawissa	Columbia	520	29	51.4	-1.2	87	4†	24	28	35	3.80	+0.70	0.85	0	11	14	10			H. H. Yetter.	
Center Hall	Center	1,272	30	50.1	-1.0	84	5	23	26†	36	4.27	+1.22	0.78	T.	16	12	7	14		S. W. Smith.	
Chambersburg	Franklin	580	26	53.3	+0.5	85	5	25	27†	37	3.51	+0.31	0.98	0	12	11	7	13	sw.	William B. Spear.	
Clearfield	Clearfield	1,120	16	52.8	-0.2	90	4	23	28	40	4.44	+1.12	1.02	T.	14	11	9	11	w.	E. W. Hess.	
Coatesville	Chester	380	38	51.2	-3.1	85	4	22	27†	35	4.59	+1.07	1.02	0	9	11	11	9	s.	Prof. W. T. Gordon.	
Colebrook	Lebanon	560	16	49.8	-3.2	84	4	24	27†	33	5.42	+2.41	2.00	0	10	15	5	11	w.	Wm. A. Rorer.	
Emporium	Cameron	1,050	38	49.4	-0.6	83	4	26	28	33	5.13	+1.83	1.45	T.	16	10	8	13	w.	T. B. Lloyd.	
Ephrata	Lancaster	380	25	53.0	-2.1	86	5	25	27	32	4.87	+1.70	1.31	0	13	12	4	15	w.	Ira J. Keath.	
Freeland	Luzerne	1,970	11	45.7		78	5	24	26	26	5.79		1.40	T.	20	8	11	12	nw.	Theo. Reichmann.	
George School	Bucks	190	19		-1.8	86	4†	25	27	35	4.38	+1.13	1.32	0	11	18	6	7	n.	Prof. N. W. Swayne	
Gettysburg	Adams	600	52	55.2	+3.0	87	4†	27	27†	35	3.81	+0.61	0.99	0	15	2	20	9	w.	Col. E. B. Cope.	
Gordon	Schuylkill	840	22	49.4	-1.3	82	5	19	27	38	4.59	+0.21	1.28	0	14	15	4	12	n.	Capt. J. G. Johnson	
Gouldsboro	Wayne	1,875	2	46.0		81	4	16	27†	41	5.11	+1.66	1.35	0	14	10	8	13	w.	Gustav Holtz.	
Hamburg	Berks	535	33	52.2	-1.7	85	5	25	28	35	4.85	+0.79	1.92	0	10	12	6	13	w.	State Sanatorium.	
Hanover	York	600	22	55.2	-0.9	88	5	27	27	35	3.15	+0.29	1.03	0	15	15	6	10	s.	Mrs. Mabel C. Wolcott.	
Harrisburg	Dauphin	361	56	54.2	-0.6	84	5	31	28	27	3.90	+0.95	1.54	0	12	5	13	13	nw.	U. S. Weather Bureau.	
Hawley	Wayne	900	7	47.6		85	5	18	28	41	3.73		0.93	T.	10	15	7	9	w.	J. S. Pennell.	
Holtwood	Lancaster	200	11	54.3		84	6	32	27†	22	2.80	+0.52	1.32	0	11	13	9	9		H. W. Lowy, C. E.	
Huntingdon	Huntingdon	650	38	52.8	+0.3	86	5	23	27	36	3.11	+0.10	0.92	T.	19	8	11	12	w.	Prof. W. J. Swigart.	
Hyndman	Bedford	977		54.0	+0.7	88	4	25	28	41	3.01	+0.15	1.10	T.	11	7	8	16		John S. Madore.	
Lancaster	Lancaster	255	38	54.8	+1.4	88	4	23	27	42	3.34	+0.26	1.35	0	10	15	9	7	s.	Supt. of Water Works.	
Lawrenceville	Tioga	1,000	28	49.0	-1.5	84	5	22	28	36	2.98	+0.22	0.66	1.0	12	9	6	16		C. P. Darling.	
Lebanon	Lebanon	469	85	52.9	-0.3	87	4†	28	27†	35	4.31	+0.79	1.49	0	12	17	5	9	w.	S. B. Benzing.	
Lewisburg	Union	450	51	52.7	+2.5	87	5	29	27†	32	4.42	+1.18	1.02	0	18	11	8	12	w.	Prof. W. G. Owens.	
Lock Haven	Clinton	560	36	51.2	-2.1	85	5	27	28	25	5.24	+1.99	0.86	T.	18	15	5	11	w.	John P. Anthony.	
Lykens	Dauphin	680	11	53.3	-0.1	87	5	27	26†	38	3.84	+0.61	1.00	0	11	17	5	9	nw.	Susquehanna Collieries Co.	
Mauch Chunk	Carbon	600	35	50.8	-1.5	86	4	22	28	38	5.16	+1.40	1.56	T.	13	14	6	11	w.	R. K. Wintermute.	
Millfistown	Juniata	445	22	53.3	+0.9	87	5	24	28	40	3.74	+0.50	0.66	0	15	7	5	19	w.	Wellington Smith.	
Montrose	Susquehanna	1,720	23	47.2	-1.8	80	5	26	26†	34	5.08	+1.56	1.85	T.	10	6	9	16	s.	Silas Jagger.	
Mt. Pocono	Monroe	1,658	23	45.8	-1.6	75	3†	20	28	36	6.29	+1.27	2.23	1.0	10	7	16	8	nw.	Cecil J. Hoskinson.	
Muncy Valley	Sullivan	1,045	14	48.2	-2.4	82	5	23	28	33	7.03	+3.67	2.96	T.	11	12	9	10	nw.	A. H. Boatman.	
Narberth	Montgomery	300	7	53.2		84	4†	28	26	29	4.26		1.43	0	12	10	7	14	sw.	Charles Decker.	
Neshaminy Falls	Bucks	60	37	53.1	-0.9	86	4†	25	28	36	2.97		0.90	0	14	19	6	6	w.	North Springfield Water Co.	
Palmerton	Carbon	398	9	50.4		85	5	23	27†	39	5.06		1.52	0	15	17	9	5	ne.	F. G. Breyer.	
Philadelphia	Philadelphia	114	55	57.0	-0.8	86	4	36	26	29	4.11	+1.01	1.13	0	12	9	11	11	sw.	U. S. Weather Bureau.	
Philadelphia-Gtn.	Philadelphia	113	1	56.4		86	4	34	26†	27	3.70		1.23	0	10	10	9	12		Julius Bernstein.	
Phila. Navy Yard	Philadelphia	12	10	56.2		88	4	34	26†	33	2.56		0.93	0	11					Commandant, Navy Yard.	
Phila-Point Breeze	Philadelphia	90	1	56.4		87	4	35	26	31	3.84		1.10	0	11	5	12	14	w.	Atlantic Refining Co.	
Phoenixville	Chester	100	15	53.2	-1.2	83	4†	24	28	34	4.83	+2.03	1.50	0	8	14	11	6	s.	North Springfield Water Co.	
Quakertown	Bucks	496	41	51.6	-0.5	86	4	23	27†	39	4.59	+1.22	1.44	0	14	10	10	11	sw.	John E. Benner.	
Reading	Berks	325	56	54.6	-0.1	86	5	31	28	30	3.69	+0.43	1.41	0	10	9	9	13	nw.	U. S. Weather Bureau.	
Scranton	Lackawanna	805	31	49.6	-2.2	85	4	27	28	32	3.72	+0.81	1.00	0	15	3	9	19	s.	U. S. Weather Bureau.	
Selinsgrove	Snyder	455	36	52.4	-0.2	85	5	26	27	33	3.98	+0.44	0.72	0	14	14	4	13	sw.	Dr. George E. Fisher.	
Shawmont	Philadelphia	51	30	53.6		81	4†	29	28	26	3.57	+0.23	1.10	0	9	10	12	9	nw.	W. S. Guiles.	
State College	Center	1,217	41	51.8	+0.8	84	5	28	28	37	4.35	+1.46	0.72	T.	16	4	15	12	sw.	C. A. Kern.	
Towanda	Bradford	754	31	48.4	-2.4	84	4	24	28	34	4.30	+1.20	1.18	T.	14	6	11	14	s.	Hiram E. Bull, C. E.	
Wellsboro	Tioga	1,419	60	47.6	-1.5	81	5	22	28	37	3.22	+0.02	0.60	T.	11	17	1	13	sw.	George W. Hill.	
West Chester	Chester	455	88	53.3	-1.2	83	4†	28	26†	30	5.68	+1.94	1.65	0	12	15	8	8	sw.	Arthur M. Hay.	
Williamsport	Lycoming	521	39	51.6	-1.0	85	5	27	28	28	4.79	+1.42	2.05	0	16	10	7	14	nw.	George A. Beck.	
York	York	400	38	54.3	+0.7	87	5	23	27	38	4.06	+1.18	1.18	0	14	10	12	9	n.	York Water Co.	
Ohio Drainage.																					
Beaver Dam	Beaver	700	33	54.3	-1.2	86	4	31	27	35	4.63	+2.12	0.98	T.	16	3	11	17	sw.	U. S. Engineer.	
Bradford	McKean	1,427	11	48.6†		89 ^c	5	23 ^c	31	35 ^c	5.29		1.70	T.	23	7	4	20	sw.	City Engineer.	
Brookville	Jefferson	1,173	35	47.7†	-2.7	85	4	24†	28	41†	4.59	+1.62	1.25	T.	15	16	2	13		John Fawcett.	
Claysville	Washington	1,150	22	54.2	+0.5	88	4	25	27	41	4.58	+1.26	0.93	1.0	15	13	5	13	se.	J. L. Melvin.	
Corry	Erie	1,430	14	49.4	+2.6	86	4	27	26	34	7.87	+4.00	1.96	4.3	23	9	5	17		Nevin R. Dickson.	
Derry	Westmoreland	1,172	29	53.2	-1.2	86	4	28	27	35	5.39	+2.14	0.95	T.	13	16	2	13	w.	Ted R. Wineman.	
Donora	Monongahela	762		54.6		87	4	32	31	32	3.14		0.82	T.	18	1	15	15	sw.	Donora Zinc Works.	
Ebensburg	Cambria	2,000	8	49.6†		84†	4	25†	26	32†	4.24		1.00	T.	17	6	14	11	w.	D. H. Jones.	
Elk Lick	Somerset	2,680	9					23	26		4.32		0.77	4.0	10	15	4	12	w.	J. S. Stevanus.	
Franklin	Venango	957	53	49.3	-2.0	85	4	26	27	40	5.84	+2.73	1.30	T.	20	4	5	22	w.	Robert A. Fergus.	
Greensburg	Westmoreland	1,150	18	53.4	-0.4	86	4	29	26†	38	4.53	+1.40	0.80	0.2	16	8	9	14	w.	Westmoreland Water Co.	
Greenville	Mercer	950	31	50.8	+0.5	88	4	23	27	35	6.08	+2.43	1.52	T.	23	9	8	14	sw.	J. R. Marks.	
Grove City	Mercer	1,256	19	50.8	+0.6	80	4†	26	27	31	5.59	+2.01	1.10	0.1	19	5	13	13	sw.	Prof. H. W. Harmon.	
Indiana	Indiana	1,280	29																	Vacant.	
Ingram	Allegheny	800	3	53.6		85	4	30	26†	36	4.82		0.83	T.	16	1	11	19	sw.	W. R. Gormly.	
Irwin	Westmoreland	1,150	29	52.8	-1.9	86	4	28	9†	33	3.16	+0.33	0.78	T.	15	16	8	7		W. F. Gallagher.	
Johnstown	Cambria	1,184	44	53.4	-0.3	89	4	28	28	37	4.24	+1.25	0.89	T.	18	9	11	17	sw.	E. C. Lorentz.	
Lycippus	Westmoreland	1,420	34	52.8	-1.3	83	4	28	26	33	6.27	+3.22	0.80	0.5	13	1	13	17	w.	Westmoreland Water Co.	
Mount Lebanon	Allegheny	1,200		53.0		83	4	28	26	31	4.49		0.75	T.	15	10	11	10	w.	Fred Hoffman.	
New Castle	Lawrence	808	43	52.0†	0.0	87	5	25	27	28	4.65	+1.91	1.20	T.	20	5	13	13	sw.	New Castle Water Co.	
Newell	Fayette	800	6	54.2		84	4†	31	27	28	3.33		0.53	T.	13	1	8	22	sw.	Gen. Chemical Co.	
Pittsburgh	Allegheny	842	83	53.2	-2.1	84</															

The departures from normal temperature and precipitation are computed only from records for stations that have ten or more years of observation, but all complete reports are used in determining means for the State. † On other dates also.

Reference letters, ^a, ^b, ^c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record. T indicates precipitation less than .01 inch, rain or melted snow

11 Post-Office addresses are as follows: of Beaver Dam, Beaver: of Ingram, Crafton, Pittsburgh; of Lycippus, Greensburg; of Neshaminy, Oakford; of Sharon, Farrell; of Shawmont, Manayunk; of West Bingham, Genesee.

Daily Precipitation for October, 1926

Stations	Drainage Basin	Day of month																														Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31
Atlantic Drainage.																																	
Allentown	Lehigh	.08	.02				.98	.01			T.	.09	T.		.07	T.		.07	.12	.24	.19	.62			T.	1.78	.16			T.	.01	.04	4.48
Altoona	Juniata	.10	.25		.20	.02	.21	.03				.04		.52				.25	.36	.02	.25	.01	T.		.97	.33				.05	.10	.16	3.87
Ansonia	W. Br. Susq.		.02		.03		.46	.05	T.		.02	.39			.02			.20	.07	.11	.25	.07		.03	.15	.95	.05			.03	.03	.33	3.25
Baker's Summit	Juniata	.11	.02			.29	.03							.17				.15	.50		.75				.88					.19		.16	3.25
Bethlehem	Lehigh						1.05				.04			.08				1.50	.31	.04	.81				1.43	.61						.42	6.29
Biglerville	Susquehanna																																
Blossville	Lower Susq.	T.		.12			.90							.25				T.	.45		.57				1.45						T.	.27	4.01
Bustleton	Lower Del.						.45					.05		.08				.14	*		.72	.02				1.06						1.30	3.82
Carlisle	Lower Susq.	.02	.03	.05	.02	T.	.80					T.		.20	.03			.02	.41		.54			.02	.65	.45				T.	T.	.14	3.38
Catawissa	N. Br. Susq.					.40	.47	T.			.25			.20				.05	.85		.25				.82	T.				.01	.25	.25	3.80
Center Hall	Susquehanna	.02		.36		.27	.78	.28						.33				.37	.42	.16	.12		.01		.62	.12				.02	.03	.36	4.27
Chambersburg	Potomac	T.	.02	.13			.74	.02						.04				.05	.20		.70				.98	.48				.02		.13	3.51
Clearfield	W. Br. Susq.		.36	.25	T.	.41	.33				.25			T.				.14	.80		.30		.03		1.03	.30				.14	.04	.06	4.44
Coatesville	Lower Del.			.37			.92							T.				.07	.47		.43			.06	.70	.55						1.02	4.59
Colebrook	Lower Susq.	.02	T.	.07	T.		2.00				T.			.06				.17	.45		.75		T.		1.30	.30				T.		.30	5.42
Conshohocken	Schuylkill		.03	T.		T.	.76					.77		T.				.10	.25		.56			.05	.50	.57						1.40	4.99
Cresskill	Juniata	.03	.25		.28	.22	.08				.08			.39			.07	.28	.54		.20		.04		.70	.17				.06			3.39
Doylstown	Lower Del.						.90				T.	.09		T.	.04			.18	.04		.84			T.	.06	1.04						1.10	4.29
Driftwood	W. Br. Susq.		.28		.02		.28	.06	.04			.35			.05		.39		*		.20		.06	.09	1.00	.06				T.	.04	.28	3.20
Emporium	do.		.25		T.	.80	.10	.10			.45	.28		.05		T.	.20	.28		.15		.07		1.45	.33					.10	.10	.42	5.13
Ephrata	Lower Susq.	.20		.04			1.31					.01		.06	.01			.08	.45	T.	.70			.31	1.19					.01		.50	4.87
Forest City	N. Br. Susq.					2.04	.12			.23				.25	.05			.21	.15		.23			.15	.86	.06				T.	.21	4.56	
Freeland	Lehigh	.02	.10	.05			1.11	T.	.20	T.	.01	.45		.02	.24			.20	.40	.22	.18	.33		.01	.14	1.40	.06			.03	.62	5.79	
George School	Lower Del.		T.				.54				.03	.05		.01				.11	.22		.66			.03	.40	1.01						1.32	4.38
Gettysburg	Potomac	.14	.38	.05	.01		.74							.07				.23	.03		.57	.02		.04	.45	.99	.01					.08	3.81
Girardville	Susquehanna	T.	.09	T.		.26	.70	T.			.30	.15		.08			.01	.19	.54		.66			.83	.65					T.	.16	.61	5.23
Gordon	Lower Susq.	.05	.14	.02			.85				.08	.17		.04				.20	.30	.11	.60			.25	1.28						.50	4.59	
Gouldsboro	Lehigh		.12				1.35		.08		.19	.38			.15			.21			.56	.12			.12	.90	.20			.03	.70	5.11	
Graterford	Schuylkill				.32					.04	.23			.11	.08			.17	.24		.31			.14	.46	.87					.78	3.75	
Hamburg	Schuylkill	.02		.09			1.92				.12			.01				.04			.43				.41	1.52						.29	4.85
Hamlin	Upper Del.		.06			1.28	.05			.15	.10						.35	.25	.12	.25	.40		.03		.60	.47					.10	.18	4.39
Hanover	Lower Susq.	.06	.06	.01	.02		1.02	.02						.03	.17			.03	.14					.07	.26	1.03				.02		.21	3.15
Harrisburg***	do.	T.	.01	.21		.39	.49							.03			T.	.06	.45		.56			1.40	.16					.02	T.	.12	3.90
Harrisburg East	do.	.03	.01	.20	.01		.88							T.	.05		T.		.48		.57			T.	.28	1.08					.15	3.76	
Harrisburg North	do.			.35			.59											.50	.22	.81					1.22	.01					.12	3.32	
Hawley	Upper Del.	T.					.93	.03			.28				.16			.19		.14		.68			.70	.13					T.	.49	3.73
Holtwood	Lower Susq.	.06	T.		.07		.53							.18				.03	T.	.12	.17	.20	T.	T.	.07	1.32	T.			T.	.05	2.80	
Huntingdon	Juniata		.18	.10	.03	.22	.24	.01			.02			.15				.14	.34	.03	.26		T.	.02	.70	.22	.02			.05	.04	.34	3.11
Hyndman	Potomac	.10	.21				.05	.02						.15	T.			.13	.23		.70	T.			1.10	.20				T.	T.	.12	3.01
Lancaster	Lower Susq.						.18				.01			.02				.06	.45		.64			.04	1.01	.35					.49	3.84	
Lansford	Lehigh		.01	.04		1.11				T.		.15			.35			*	.35	.34	.20	.38			*	1.67	.01					*	4.61
Lawrenceville	N. Br. Susq.		.05			.43	.05	T.			.10			T.				T.	.30	.13	.28				.25	.53				.10	.10	.66	2.98
Lebanon	Lower Susq.	T.	T.	.06		1.49					T.			.03			.12	T.	.34	.10	.41		T.	.05	1.48					.01	.12	.10	4.31
Lewisburg	W. Br. Susq.	.01	.11	.04			1.02				.06	.35	.01	.23				.07	.50		.63	.02			.41	.51			.02	.04	.35	4.42	
Lloyd	do.																																
Loek Haven	do.		.16	.02		.82	.78	.05			.18	.20		.32				.23	.47	T.	.36		.02	.02	.38	.22				.10	.05	.86	5.24
Lykens	Susquehanna	T.	.04			1.00				T.	.03			.01				.16	.36		.67				.23	.94				.03	.37	3.84	
Mauch Chunk	Lehigh	.08	.06				1.56	.02			.07	.18		.22				.10	.58		.62				.63	.78					.26	5.16	
Millintown	Juniata	.02	.10	.30	.02		.66							.28				.05	.33		.64			.02	.44	.60				.04	.02	.22	3.74
Montrose	N. Br. Susq.			.04			1.85				.11			.35				.39			.42				.64	.60				.08	.60	5.08	
Morris Run	N. Br. Susq.		.04			.45	.16	.06			.41	.10		.10				.13	.12	.11	.35		.01		.36	.57			.02	.04	.80	3.83	
Mt. Pocono	Upper Del.	T.				2.23			.30	.60	T.			.10			1.10	.60	.10	.30	.06			.40									

Daily Precipitation for October, 1926—Continued from page 48

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Ohio Drainage.																																		
Beaver Dam|||	Ohio.	.64				.89	.02				.03			.08				.19	.42	.09	.11	T.		.14	.13	.98	.01			.05	.36	.49	4.63	
Beaver Falls|||	Beaver	.44	T.			.88	.15				.02			.04				.28	.42	.04	.02	T.		.12	.14	1.20	.02			.06	.19	.41	4.43	
Bradford	Allegheny	.16	*	.30		.50	.47	.14	.06		.20	.04		.02				.02	.32	.40	.02	.17	T.	.13	.04	*	1.70	.04		.07	.17	.32	5.29	
Brookville	do.	.50	.15		1.25	.03	T.				T.			.10				.10		.20	.05	.10		.15		.95	.45			.25	.20	.11	4.59	
Claysville	Ohio.	.75			.52	.16					.03	T.		.23				.07	.04		.07			.04	.01	.52	.73			.34	.14	.93	4.58	
Cloet||	Allegheny	.05	.42	.08		.20	.07	.10			.15	.17		.04				.28		.76		.13		.05		.80	.35			.28	.26	.34	4.63	
Clymer||	Conemaugh.	.79			.32	.40	.08				.09			.11				.57	.37		.26	.02	.05	.03	.84	.42	*		.31	.14	.54	5.34		
Confluence|||	Youghiogheny	.18	.64			.25	.10							.38				.16		.30	.40	.15			.12	.95	.15			.18	.10	4.06		
Coraopolis|||	Ohio.	.68	T.			.73	.01				.08			.08				.09	.25	.54	.11	T.		.08	.13	.84	.01			.05	.42	.58	4.67	
Corry	Allegheny.	.23			.60	.13	.43	.11	.01	.61	.10						.07	.10	.13	.24	.27	.31	.17	.40	.41	1.96	.61	.36		.19	.10	.33	7.87	
Coudersport.	do.	.01			.51		.08				.41							.28						.20		.60	.57			.18	.40	.28	3.52	
Creekside.	Allegheny																																	
Derry.	Conemaugh.		.35		.70	.51					.28			.10				.28	.95		.11		.10		.55	.42	T.			.34		.70	5.30	
Donora.	Monongahela.	.12	.06	.06		.41	.04				.04			.08	.01			.06	.02	.18		.07		.02		.82	.18			.21	.14	.62	3.14	
Ebensburg	Conemaugh.	.30			.17	.38	.12				.14			.31				T.	.29	.49		.30	.02	.10	.03	.75	.25			.11	.13	.35	4.24	
Elk Lick	Youghiogheny				.33	.15								.48					.21	.44		.77				.67	.40			.77		.10	4.32	
Falls Creek.	Allegheny	.27	.15		.78		.15				.28			.04				.30	.57		.27		.08		.88	T.	.56			.25		.44	5.02	
Franklin|||	Allegheny	.41	.26	.18		.82	.35				.27			.07				.18	.48	.23	.09	.04	.05	.19	.23	1.30	.08			.13	.08	.40	5.84	
Freeport|||	Allegheny	.95				.60					.03			.05				.38	.30	.10	.10	.03		.08	.23	.94	.05		.05		.33	.49	4.71	
Greensburg.	Youghiogheny	.48	.03		.52	.06	.02				T.	.27		.27				T.	.13	.79	.01	.10		.08	T.	.54	.49			.32	.08	.61	4.53	
Greenville	Beaver	.01	.54	.05	.64	.24	.08	.02				.24	.06		.01	.01	.06	.47	.11	.14	.05	.32		1.52	.50	.03			.27	.29	.42	6.08		
Grove City	Beaver	.79	.07		.45	.47	.07				.44			.04			.10	.05	.61	.03	.03	.04	.16		1.10	.45	T.		.18	.13	.38	5.59		
Herr's Isl. Dam|||	Ohio	.59	T.			.53	.02				.10	T.		.04	.04			.04	.20	.62	.12	T.		.09	.09	1.03	.02			.12	.30	.48	4.39	
Indiana.	Conemaugh.																																	
Ingram	Ohio.	.60	.01		.56	.05	T.				.10			.05				.05	.83	.01	.15		.11		.64	.49			.39	.09	.69	4.82		
Irwin	Youghiogheny	.25			.20	.03	.01				.12			.07				.04	.78		.10		.07		.60	.26			.19	.11	.33	3.16		
Johnstown	Conemaugh.	.02			.38	.07	.04	T.			.12			.34				.01	.36	.65		.25	.03	.04		.89	.48	.06		.12	.08	.30	4.24	
Kegari|||	Youghiogheny	.14			.41	.13					.14	.04		.78				.51	.58	.17	.05		.08	.75	.20			.02	.40	.29	.24	4.93		
Linesville||	Beaver	.45	.04		.57	.76	.37	.02			.80			.06	.04			.75	.02	.11	.09	.08	.14	.18	.40	1.14	.26		.13	.02	.49	6.92		
Lock No. 4|||	Monongahela.	.24	.12			.44	.08				T.	T.		.01	.07			.42	.07	.07	.06			.03	.08	1.00	.03		.09	.27	.55	3.63		
Lycippus.	Conemaugh.	.18			.74	.70	T.				.33			.28				.60	.80		.14		T.		.60	.40			.62	.17	.71	6.27		
Martin.	Monongahela.																																	
Mount Lebanon.	Ohio	.29	T.		.47	.06					.12			.11				T.	.15	.59	.01	.14		.10		.63	.65	T.		.37	.05	.75	4.49	
New Castle|||	Beaver	.43		.09	.29	.18	.29				.19	T.		.05				.10	.45	.01	.02	.04	.12	.27	*	1.20			.33	.16	.39	.04	4.65	
Newell	Monongahela.	.40			.43	.27					.02	T.	.12		T.			.30	.12		.09				.45	.33			.17	.10	.53	3.33		
Parkers Landing|||	Allegheny	.30	.10			.98	.18	T.			.65			.05				.12	.48	.10	T.	T.		T.	.33	.90	.03	T.		.10	.10	.34	4.76	
Pennline|||††	Beaver	.38	T.		.80	.37	.41	.02			.92			.02	.03			.63	.31	.07	.17	.09	.18	.18	.38	1.54	.35		.11	.05	.50	7.51		
Pittsburgh***	Ohio.	.36	.17	T.		.41	.02	T.			.01	.09		.07	.01			.04	.01	.80	.04	.09		.03		.75	.21			.39	.12	.50	4.12	
Ridgway†	Allegheny																																	
Saltsburg|||	Conemaugh.	.18				.46	T.				.14	T.						.14	.08	.64	.10			.11	.12	1.03	.05		.10	.35	.45	3.95		
Saegertown|||	Allegheny	.31	.03		1.21	.15	.20				.30	.25	.40		.20		.05	.20	.50	.10	.25	.20	.40	.05	.95	.70	.16		.15	.22	.30	7.28		
Sharon||	Beaver	.33	.07			.70	.18	T.			.31			.05				.63		.04	T.		.23	.22	1.62	.04			.31	.17	.50	5.40		
Somerset.	Youghiogheny	.17			.10	.30	.11				.05			.32				.30	.46		.65	.03			.61	.12	T.		.19	.16	.23	8.80		
Springdale|||	Allegheny	.33				.27	.01				.08			.05				.07	.25	.43	.15	.02		.11	.14	.88	.02		.08	.40	.45	3.74		
Uniontown	Monongahela.	.62			.40	.39	.20				.03			.40				.79	.14		.14		T.		.53	.61			.29	T.	.75	5.29		
Unity Reservoir††	Youghiogheny	.40			.55						.53			.10				.22	.70	.10	.10		.06		.52	.51			.43	.09	.72	5.03		
Vandergrift.	Conemaugh.	.27	.16		.43						.04			.08				.20	.40		.12		.10		.72	.25			.25	.16	.56	3.74		
Warren.	Allegheny.	.17	.19		.25	.60	.10	.11			.80	.12		.11				.17	.14	.10	.10	.20	.10	.18	.94	.96	.06	.04		.12	.30	.20	6.16	
Washington.	Ohio.																																	
Westford|||	Beaver	.38	.12		.49	.28	.18				.50	.10						.45	.37	.07	.10	.23	.05	.10	.12	1.33	.12		.35	.02	.51	5.87		
West Newton|||	Youghiogheny	.26	.06	.02	.20	.45	.05				.06	T.		.02	.07			.07	.10	.11	.08	.02		.04	.16	.91	.02		.10	.30	.41	3.51		
Zelienople|||	Ohio.	.37			.01	.83	.12	.01			.01			.05				.45	.36	.10	.05	.03		.15	.18	1.16	.01		.10	.06	.16	.42	4.63	
Lake Drainage.																																		
Erie***	Lake Erie.	T.	.43		.01	1.01	1.40	.47			.75			.11	.12			.20	.02	.34	.01	.19	.13	.45	T.	1.45	.23	.08		.07	.06	.40	.05	7.98
West Bingham.	Genesee.		.06	T.		.43	.10	.05			.16	.12		.03					.34	.20	.48	T.	.10		.56	.45			.15	.17	.62	.40	4.02	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurements. T. (trace) when precipitation is less than .01 inch. † Incomplete or missing. ‡ Daily amounts inconsistent. †† Post Office addresses are as follows: of Blossville, New

Daily Temperatures for October, 1926

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum 68	69	81	86	86	72	63	53	56	58	62	70	62	68	62	61	56	53	54	45	53	55	58	67	61	47	51	59	61	68	56	62.1	
	Minimum 53	54	60	60	63	61	48	40	41	35	44	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43		
Altoona.....	Maximum 58	75	78	83	84	66	52	54	58	73	65	66	63	66	58	59	54	54	58	47	49	52	59	50	52	43	49	59	60	65	62	60.5	
	Minimum 55	57	65	58	60	50	43	38	32	42	54	42	51	41	47	32	42	32	40	37	37	30	41	35	35	28	30	28	42	48	38	42.3	
Beaver Dam.....	Maximum 78	76	80	86	83	70	56	62	63	75	71	71	69	67	66	68	64	61	61	50	55	52	59	58	56	46	48	67	65	55	54	64.3	
	Minimum 53	61	66	61	65	52	44	38	35	44	57	50	54	38	43	40	42	36	42	44	37	35	38	39	35	32	31	32	48	46	36	44.3	
Bradford.....	Maximum 63	71	85	86	89	67	53	51	58	64	63	71	65	63	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
	Minimum 42	60	60	53	65	50	42	41	35	41	43	39	48	36	43	29	39	34	36	34	35	36	32	29	30	28	26	51	33	23	38.9 ^c		
Brookville.....	Maximum 68	77	75	85	77	63	55	57	60	69	65	71	63	63	60	64	51	56	50	43	49	46	57	53	43	44	51	65	55	60	43	59.3	
	Minimum 55	58	58	53	54	45	38	32	28	40	35	34	36	35	30	29	29	32	36	29	27	30	33	29	29	29	24	35	35	26	36.1 ^a		
Carlisle.....	Maximum 66	70	84	88	88	80	62	62	61	70	70	70	69	71	63	65	59	50	58	49	55	60	61	53	55	49	55	61	60	70	60	64.3	
	Minimum 57	60	61	64	65	56	48	36	35	40	54	41	50	42	45	42	32	51	40	39	36	29	41	38	40	31	25	26	36	51	42	43.5	
Catawissa.....	Maximum 69	64	69	87	87	70	65	58	59	57	62	68	68	68	64	63	60	58	58	54	56	60	60	58	61	65	58	62	64	46	46	62.7	
	Minimum 52	52	43	56	66	57	40	38	38	33	44	34	47	45	42	32	51	40	30	37	37	29	37	32	30	25	24	36	44	40	40	40.0	
Chambersburg.....	Maximum 63	71	82	82	85	77	59	63	61	75	70	65	67	68	65	61	58	49	59	49	56	57	58	51	54	49	53	60	65	69	61	63.3	
	Minimum 57	60	59	61	60	59	46	35	35	38	54	44	49	39	44	34	49	35	42	40	36	29	42	42	38	32	25	25	38	51	43	43.3	
Claysville.....	Maximum 82	79	83	88	84	71	60	62	68	73	67	76	71	72	65	68	63	59	61	49	56	53	60	57	56	43	46	70	66	66	64	65.7	
	Minimum 49	62	62	62	65	48	41	31	29	45	56	53	54	36	43	40	42	32	41	41	36	33	34	39	31	27	25	29	50	48	35	42.6	
Clearfield.....	Maximum 61	81	76	90	85	66	58	62	66	70	69	76	66	69	66	60	64	62	63	63	53	53	65	52	52	49	55	63	59	62	61	64.3	
	Minimum 53	59	64	60	60	53	45	39	30	41	53	40	50	38	36	40	45	43	30	38	37	28	34	32	34	30	28	23	42	44	35	41.4	
Coatesville.....	Maximum 68	71	83	85	84	73	60	60	55	65	63	59	65	66	60	61	57	49	55	49	51	57	54	63	66	46	50	57	67	69	62	62.3	
	Minimum 55	57	62	60	63	55	47	33	33	32	51	33	46	46	41	30	40	35	34	30	26	38	42	36	25	22	22	35	47	36	40.1		
Corry.....	Maximum 71	72	77	86	77	63	60	54	60	64	63	70	63	65	59	61	53	53	54	47	45	45	55	52	50	35	50	65	60	50	45	58.8	
	Minimum 46	60	55	59	62	60	41	38	33	42	47	36	50	31	39	33	33	35	33	33	35	29	33	31	27	30	33	47	38	33	40.1		
Emporium.....	Maximum 62	74	72	83	80	66	57	56	56	63	58	67	64	62	55	58	55	55	55	43	48	50	54	54	54	44	50	59	58	56	57	58.9	
	Minimum 49	60	59	60	60	51	43	38	32	41	41	36	50	40	38	30	38	33	38	36	38	35	30	30	36	31	30	26	42	36	30	39.9	
Erie.....	Maximum 75	74	74	86	76	59	53	52	53	64	60	72	64	65	53	62	49	60	45	44	49	51	54	55	43	37	50	65	55	48	46	57.8	
	Minimum 55	63	61	70	58	50	44	47	40	50	47	46	42	43	42	42	40	40	38	40	41	39	43	31	31	36	40	42	42	35	44.7		
Franklin.....	Maximum 75	79	80	85	72	58	53	57	64	72	63	71	60	65	59	63	50	58	54	45	49	48	58	60	42	43	52	67	58	47	45	59.4	
	Minimum 51	55	61	57	58	51	44	42	32	33	46	41	44	32	35	32	35	32	38	37	37	30	32	33	36	29	26	27	39	36	35	39.2	
Freeland.....	Maximum 60	63	73	75	78	70	56	50	46	57	50	60	60	56	50	51	46	40	44	40	43	47	50	50	54	40	42	50	59	54	50	53.7	
	Minimum 48	49	56	56	62	49	40	36	32	31	40	36	48	38	38	30	36	29	32	30	28	31	38	38	29	24	26	28	38	42	30	37.7	
Gettysburg.....	Maximum 65	70	85	87	82	63	63	66	73	72	70	69	72	67	65	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	
	Minimum 57	58	60	62	67	58	44	36	33	38	54	42	54	45	47	34	50	36	40	39	36	29	41	43	38	30	27	27	40	52	43	43.9	
Greensburg.....	Maximum 75	75	80	86	80	65	52	58	60	73	65	74	66	65	59	69	62	57	60	47	51	52	55	57	55	43	50	67	61	67	63	62.9	
	Minimum 53	61	63	59	65	52	43	38	30	47	55	47	56	38	46	39	43	35	41	42	39	34	37	42	32	29	29	52	48	35	43.8		
Grove City.....	Maximum 74	76	77	80	80	67	52	57	56	61	66	69	64	64	60	64	55	58	50	45	48	47	57	54	48	40	51	61	60	55	45	59.4	
	Minimum 56	61	66	62	66	48	43	41	32	39	46	44	63	33	42	40	39	33	38	39	37	35	35	36	32	29	26	32	50	39	34	42.1	
Hamburg.....	Maximum 70	77	82	83	85	83	64	59	55	62	60	68	64	64	69	59	60	55	56	51	48	57	59	63	62	43	47	57	61	57	65	62.7	
	Minimum 56	63	70	66	65	59	46	35	35	38	42	34	49	33	34	30	41	28	34	38	34	28	43	47	43	26	28	25	38	45	45	41.7	
Harrisburg.....	Maximum 66	72	80	84	84	72	60	59	58	68	65	68	66	66	60	60	58	48	56	47	52	56	57	60	62	47	52	58	60	66	61	61	62.2
	Minimum 58	60	63	64	67	55	48	43	43	43	46	42	56	51	46	39	45	42	44	38	40	36	46	43	36	34	32	31	44	54	39	46.1	
Hawley.....	Maximum 65	64	72	80	85	76	64	53	52	64	43	54	69	68	64	60	56	53	44	48	45	46	55	58	56	62	45	48	59	57	53	55.5	
	Minimum 46	53	51	50	62	53	42	32	38	27	43	28	39	35	35	26	44	29	39	30	32	23	33	25	40	30	21	18	39	34	37	36.6	
Huntingdon.....	Maximum 62	74	78	84	86	68	57	61	61	76	70	64	65	69	61	61	57	49	57	50	52	57	60	59	53	47	53	61	64	60	62.5		
	Minimum 58	61	57	63	61	56	49	35	33	40	55	44	51	40	48	33	47	34	43	38	40	29	38	35	37	31	23	25	38	50	40	43.0	
Indiana.....	Maximum.....																																
	Minimum.....																																
Johnstown.....	Maximum 65	78	83	89	83	67	50	60	61	74	65	75	69	64	61	66	54	60	65	49	50	56	58	53	52	41	48	65	60	68	59	62.5	
	Minimum 58	62	62	60	61	50	45	38	38	42	55	50	55	44	47	37	38	36	42	41	38	32	42	41	34	30	28	50	49	37	44.3		
Lancaster.....	Maximum 71	75	86	88	86	83	75	69	65	88	72	78	71	71	68	64	63	58	63	60	60	64	62	64	65	64	59	62	72	74	74	68.9	
	Minimum 55	57	55	62	64	58	43																										

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXI.

NOVEMBER, 1926.

No. 11

GENERAL SUMMARY.

The temperatures were mostly seasonable and averaged near the November normal, while there was a considerable excess of precipitation. There was little snow, generally no more than a trace, in the central and southeastern counties, while heavy snows were reported from several stations in the northwestern part of the State.

The heavy rainfall kept the fields muddy and made field work difficult. A considerable portion of the potato crop remained in the ground on the first of the month, and digging in the muddy soil was almost impossible. As a result the losses were heavy. Corn husking proceeded slowly, the corn being mostly too wet to crib, and the fields were so muddy that the work proceeded under a serious handicap. A large part of the wheat crop was seeded during the latter part of October, and was just coming up about November 1st. The conditions during November were favorable for this late grain and enabled it to become fairly well rooted before severe freezing occurred. At the end of the month most of the crop seemed to be in good condition for winter, much better than seemed to be possible at the time of seeding. Pasturage held up well early in the month and stock remained in the fields a large part of the time, but the grass was generally killed by the cold wave that occurred on the 12th.

The streams were above normal stages most of the month, and the flood stage was reached at several stations from the 16th to the 18th. No serious damage was reported. Moderate gales occurred during a storm on the 16th, and considerable damage was reported to shipping in Delaware Bay, especially along the water fronts at Chester and Marcus Hook. At the latter place the Government Quarantine Station sustained heavy damage, 700 feet of sea wall being washed away.

TEMPERATURE.

The mean temperature for the State, as determined from the records of 83 stations, was 40.4°, a deficiency of 0.6° as compared with the November normal. The highest mean was 46.4°, at Philadelphia Weather Bureau, and the lowest was 33.8°, at Freeland. The highest temperature recorded during the month was 79°, at Newell and Ingram on the 15th, while the lowest, -1°, occurred at Saegerstown on the 12th. The greatest daily range of temperature was 50°, at Gordon, on the 6th.

PRECIPITATION.

The average precipitation, from rain and melted snow, for the State, as deduced from the records of 134 stations, was 4.49 inches, or 1.68 inches in excess of the monthly normal. The greatest monthly amount was 9.84 inches, at South Sterling, and the least was 2.00 inches, at Newell. The greatest amount recorded in any 24 consecutive hours was 4.86 inches, at Lykens, on the 16th. Snowfall for the entire State averaged 0.9 inch, or 1.7 inches less than the November normal. The greatest monthly snowfall was 21.6 inches, at Corry, which station also reported the greatest 24-hour snowfall, 7.2 inches on the 10th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent			Total movement, in miles	Velocity, in miles per hour		
				8 a. m.	12 noon.	8 p. m.		Average	* Highest	Direction
Erie.....	63.5	294.7	22	71	65	65	14,474	20.1	50	se.
Harrisburg.....	104.9	299.4	35	73	63	66	5,379	7.5	33	se.
Philadelphia.....	153.1	299.4	51	79	68	77	6,410	8.9	45	sw.
Pittsburgh.....	121.2	297.0	41	76	71	70	9,618	13.4	48	w.
Reading.....	108.2	299.4	36	77	71	76	5,675	7.9	36	se.
Scranton.....	69.8	297.0	24	85	78	80	5,954	8.3	36	se.

* For any five-minute period.

COMPARATIVE DATA FOR NOVEMBER

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	42.2	79	4	3.37	6.22	1.99	9	7	14
1889.....	41.8	73	10	6.72	10.16	2.72	5	8	17
1890.....	41.8	78	10	1.49	4.29	0.78	9	10	11
1891.....	39.7	76	6	2.65	5.70	1.09	9	8	13
1892.....	39.0	80	10	4.34	7.08	1.61	6	8	16
1893.....	39.2	68	-4	2.93	5.69	1.16	8	11	11
1894.....	38.2	74	6	2.50	3.64	0.74	10	9	12
1895.....	42.9	78	6	2.48	5.73	0.97	10	8	11
1896.....	46.0	83	12	3.55	8.05	0.82	8	9	13
1897.....	41.6	76	2	5.28	7.04	2.37	6	8	16
1898.....	41.0	73	2	4.03	7.34	1.44	8	9	13
1899.....	41.5	72	8	2.66	4.86	0.61	10	8	12
1900.....	43.5	79	7	4.10	6.92	1.67	6	9	15
1901.....	36.0	76	7	2.56	5.00	1.23	7	8	15
1902.....	47.3	78	9	1.53	3.02	0.50	10	8	12
1903.....	37.9	78	0	2.18	5.33	0.88	11	8	11
1904.....	37.9	79	-4	1.14	3.31	0.14	10	9	11
1905.....	39.1	68	5	2.47	3.72	1.08	11	8	11
1906.....	41.5	80	9	1.48	3.08	0.54	12	6	12
1907.....	39.8	70	4	3.60	7.52	1.05	13	8	9
1908.....	41.1	75	-2	0.90	1.97	0.20	12	8	10
1909.....	46.1	83	15	1.40	3.97	0.26	12	8	19
1910.....	36.8	78	9	2.45	5.63	0.33	4	7	10
1911.....	37.8	77	7	2.84	5.68	0.99	7	7	16
1912.....	43.0	81	7	2.17	4.83	0.61	10	8	12
1913.....	43.9	79	10	3.05	6.34	1.43	10	5	15
1914.....	40.6	81	-2	1.76	4.27	0.57	12	9	9
1915.....	42.1	79	13	2.28	5.32	0.22	10	9	11
1916.....	41.3	79	4	2.27	7.97	0.88	13	6	11
1917.....	37.6	69	-5	0.63	1.37	0.12	14	7	9
1918.....	42.1	76	11	2.03	4.07	0.44	12	6	12
1919.....	41.2	76	11	5.35	8.45	1.84	11	7	12
1920.....	40.3	75	5	3.54	6.42	1.85	7	7	16
1921.....	42.3	80	3	5.75	9.14	3.20	5	7	18
1922.....	42.9	73	12	1.21	4.52	0.23	10	7	13
1923.....	40.7	70	10	2.83	6.84	1.55	12	5	13
1924.....	40.7	78	-9	1.54	3.29	0.56	12	8	10
1925.....	39.5	71	4	3.56	6.07	1.50	11	7	12
1926.....	40.4	79	-1	4.49	9.84	2.00	9	7	14

RIVER CONDITIONS

Stations	Rivers	Mean stage		Highest stage		Lowest stage		Flood stage	
		Mean	Date	Highest	Date	Lowest	Date	Flood	Date
Port Jervis.....	Delaware.....	5.1	13.5	17	3.3	8	18		
Phillipsburg.....	Delaware.....	6.0	17.0	18	2.5	8	22		
Mauch Chunk.....	Lehigh.....	3.5	13.5	16	0.1	27	12		
Wilkes-Barre.....	Susquehanna.....	9.9	22.8	17	6.0	9	20		
Williamsport.....	Susquehanna.....	5.9	15.0	17	3.4	9	20		
Harrisburg.....	Susquehanna.....	7.5	17.0	17	5.0	9	17		
Freepport.....	Allegheny.....	10.2	17.5	17	6.6	15	22		
West Newton.....	Youghiogheny.....	2.3	5.4	17	1.5	7	20		
Lock No. 4.....	Monongahela.....	16.3	27.4	17	13.8	8	31		
Pittsburgh.....	Ohio.....	14.9	22.9	17	12.4	9	25		
Beaver Dam.....	Ohio.....	13.4	24.9	18	9.0	9	30		

Climatological Data for November, 1926

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy		Cloudy	Prevailing direction of wind
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	14	40.8	.....	70	9	21	12†	31	5.46	+3.06	1.30	T.	11	15	12	3	w.	John A. Frick.
Altoona.....	Blair.....	1,615	39	37.9	-2.9	64	7	13	12	32	4.03	+2.12	1.43	2.0	12	9	5	16	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	295	42	43.2	-0.8	70	15	23	12	29	4.79	+1.68	1.75	T.	8	21	4	5	nw.	Lehigh University.
Biglerville.....	Adams.....	652	4	.....	.....	72	15	19	12	33	3.55	.....	1.21	.....	6	11	7	12	w.	Vacant.
Bustleton.....	Philadelphia.....	125	7	43.6	.....	72	15	19	12	33	3.55	.....	1.21	.....	6	11	7	12	w.	Experiment Station.
Carlisle.....	Cumberland.....	467	59	40.6	-0.1	70	15	19	12	35	6.18	+2.99	3.35	T.	6	11	10	9	nw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	29	41.0	-1.4	70	9	13	12	36	5.61	+2.90	3.70	T.	8	16	3	11	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	30	38.6	-1.3	74	14	11	12	46	3.74	+1.72	2.65	T.	5	11	4	15	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	26	40.0	-1.4	66	9†	16	12	35	5.12	+2.47	2.16	T.	7	8	6	16	sw.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	16	38.9	-1.8	70	7	12	12	45	3.09	+0.25	1.00	0.2	11	9	5	16	w.	E. W. Hess.
Coatesville.....	Chester.....	380	38	39.8	-3.1	70	9	15	12	32	5.47	+2.28	2.08	0	10	9	15	6	w.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	16	40.9	-0.1	70	15	15	12	30	6.16	+3.68	3.45	T.	7	10	4	16	w.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	38	38.1	-1.1	65	16	12	28	31	3.81	+1.10	1.32	1.5	11	6	6	18	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	25	42.2	-0.2	72	9†	19	12	31	5.29	+2.90	2.22	T.	9	12	8	10	se.	Ira J. Keath.
Freeland.....	Luzerne.....	1,970	11	33.8	.....	60	9	8	28	30	7.65	.....	2.44	T.	13	8	6	16	nw.	Theo. Reichmanu.
George School.....	Bucks.....	190	19	43.3	+0.7	74	15	18	12	38	3.57	+0.86	1.01	T.	9	19	4	7	n.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	600	52	41.8	+0.5	68	9	17	12	35	6.71	+4.04	3.50	0	9	10	12	8	sw.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	22	38.6	-0.4	69	16	10	12	50	8.59	+5.80	4.45	T.	9	12	4	14	w.	Capt. J. G. Johnson
Gouldsboro.....	Wayne.....	1,875	2	34.8	.....	61	16	7	12	34	8.11	+5.28	2.28	.....	9	9	6	15	w.	Gustav Holtz.
Hamburg.....	Berks.....	385	33	40.0	-2.2	71	10	16	12	36	4.26	+1.40	1.25	.....	8	12	7	11	w.	State Sanatorium.
Hanover.....	York.....	600	22	43.1	-1.1	70	9	20	12	31	4.59	+2.66	2.18	.....	8	15	4	11	w.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	56	42.0	-0.8	69	9	22	28	27	4.71	+2.36	1.98	T.	7	5	8	17	nw.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	7	38.4	.....	65	9	12	12	37	4.34	.....	2.43	T.	9	8	5	17	w.	J. S. Pennell.
Holtwood.....	Lancaster.....	200	11	43.4	.....	68	10	23	28	25	5.30	+3.32	1.30	.....	10	10	12	8	.....	H. W. Lowy, C. E.
Huntingdon.....	Huntingdon.....	650	38	39.5	-2.0	67	16	13	12	39	3.98	+1.72	1.66	T.	13	9	1	20	w.	Prof. W. J. Swigart.
Hyndman.....	Bedford.....	977	.....	40.4	-1.6	67	7	14	12	43	4.52	+2.98	1.59	T.	8	8	5	17	.....	John S. Madore.
Lancaster.....	Lancaster.....	255	38	44.3	+1.2	74	9†	17	12	48	7.62	+5.20	4.20	.....	6	18	9	3	w.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	28	38.4	-0.3	64	4†	14	28	34	2.79	+0.65	1.65	T.	6	9	5	16	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	85	40.6	-1.6	70	9	20	12	34	6.24	+3.35	1.90	T.	10	14	10	6	w.	S. B. Benzing.
Lewisburg.....	Union.....	450	51	39.6	+0.5	66	15†	17	12	35	7.24	+4.73	3.54	0	11	9	4	17	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	36	39.6	-2.3	67	15†	16	12	30	3.76	+1.32	1.81	0.3	7	7	11	12	w.	Joseph Beaver.
Lykens.....	Dauphin.....	680	11	41.4	+0.4	67*	9	12	12	29*	8.69	+5.64	4.86	T.	11	13	10	7	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	35	42.9	+2.3	71	15	18	4	33	5.62	+2.29	3.21	T.	9	9	4	17	e.	R. K. Wintermute.
Mifflintown.....	Junata.....	445	22	39.9	-0.7	67	15	18	12	34	5.44	+3.60	3.10	T.	7	9	2	19	nw.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	23	40.2	+3.3	69	16	18	4	31	4.85	+2.45	3.05	T.	4	7	5	18	s.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,658	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	14	37.6	-1.6	64	9†	11	12	37	8.07	+5.65	4.68	T.	7	6	12	12	nw.	A. H. Boatman.
Narberth.....	Montgomery.....	300	7	42.8	.....	70	15	20	12†	28	4.93	.....	1.62	T.	11	10	6	14	sw.	Charles Decker.
Neshaminy Falls††	Bucks.....	60	37	40.9	-0.6	73	15	16	12	40	5.19	.....	1.50	0	13	16	8	6	w.	North Springfield Water Co
Palmerton.....	Carbon.....	398	9	40.8	.....	70	15	13	12	32	5.32	.....	2.74	T.	9	18	9	3	sw.	F. G. Breyer.
Philadelphia.....	Philadelphia.....	114	55	46.4	+0.7	73	8	24	28	27	3.07	+0.01	0.99	T.	9	9	7	14	sw.	U. S. Weather Bureau.
Philadelphia-Gtn.....	Philadelphia.....	113	1	46.1	.....	72	8†	24	28	29	3.79	.....	1.13	T.	11	9	9	12	.....	Julius Bernstein.
Phila. Navy Yard.....	Philadelphia.....	12	10	45.1	.....	74	15	24	28	28	4.23	.....	1.02	.....	10	.....	.....	.....	.....	Commandant, Navy Yard.
Phila-Point Breeze.....	Philadelphia.....	90	1	45.4	.....	74	15	23	28	28	3.55	.....	1.28	T.	8	6	11	13	w.	Atlantic Refining Co.
Phoenixville.....	Chester.....	100	15	40.6	-1.6	70	15†	15	12	42	4.94	+2.22	2.03	T.	6	15	12	3	w.	North Springfield Water Co
Quakertown.....	Bucks.....	496	41	40.6	-0.4	69	15	16	12	34	4.73	+1.57	2.11	T.	11	8	14	8	nw.	John E. Benner.
Reading.....	Berks.....	325	56	43.8	+1.3	73	9	22	28	29	3.26	+0.14	1.12	T.	7	7	7	16	se.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	31	40.7	+0.2	69	9	19	28	33	4.69	+2.40	2.41	T.	9	5	4	21	s.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	36	39.6	-1.9	67	9†	18	12	34	6.91	+4.23	3.80	.....	7	8	10	12	sw.	Dr. George E. Fisher.
Shawmont††	Philadelphia.....	51	30	42.4	.....	67	9†	21	12	29	4.38	+1.50	1.10	0	9	8	8	14	nw	W. S. Guiles.
State College.....	Center.....	1,217	41	39.0	-0.7	65	8†	16	28	31	4.53	+2.23	2.06	T.	9	5	7	18	w.	C. A. Kern.
Towanda.....	Bradford.....	754	31	39.6	+0.3	67	9	15	12	35	5.23	+3.23	2.77	T.	10	6	4	20	se.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	60	36.4	-1.1	64	9	13	11†	30	3.43	+0.80	1.75	T.	6	13	9	8	s.	George W. Hill.
West Chester.....	Chester.....	455	88	42.0	-0.8	68	15	18	28	33	4.45	+0.82	1.29	.....	10	18	6	6	w.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	39	39.9	-0.9	65	15	11	12	29	7.52	+5.12	2.70	T.	11	7	2	21	nw.	George A. Beck.
York.....	York.....	400	38	41.9	-0.6	72	15	16	12	33	5.04	+2.49	2.31	T.	9	12	11	7	e.	York Water Co.
Ohio Drainage.																				
Beaver Dam††	Beaver.....	700	33	42.4	-0.9	75	15†	16	12	37	3.77	+1.43	1.63	.....	15	3	10	17	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	11	38.2*	.....	64*	15	11*	12	34*	3.82	.....	1.46	4.9	16	7	6	17	sw.	City Engineer.
Brookville.....	Jefferson.....	1,173	35	35.2†	-2.4	67†	14	7†	12	38†	2.40	-0.44	0.75	T.	6	9	15	6	.....	John Fawcett.
Claysville.....	Washington.....	1,150	22	42.0	+0.5	78	15	14	12	44	2.99	+1.05	1.86	0.3	10	13	3	14	nw.	J. L. Melvin.
Corry.....	Erie.....	1,430	14	37.8	-0.4	68	15	13	12	32	5.70	+1.82	1.66	21.6	19	7	4	19	.....	Nevin R. Dickson.
Derry.....	Westmoreland.....	1,172	29	42.1	+0.2	72	14	15	12	34	2.07	-0.50	0.90	T.	8	17	3	10	w.	Ted R. Wineman.
Donora.....	Washington.....	762	.....																

Daily Precipitation for November, 1926

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown	Lehigh	.46	.03	T.						.39	.46	T.				.05	1.05	1.30		.52				T.				.06	.79			.35	5.46	
Altoona	Juniata		.05			.01				.90	.03					.03	1.43		.98	.09		.02		T.				.20	.09		.20	4.03		
Ansonia	W. Br. Susq.	.15					.12			.01	.64						.85	.91		.69								.32			.24	3.93		
Baker's Summit	Juniata									1.25						.06	1.14		.80									.21			.27	3.73		
Bethlehem	Lehigh									1.09	.39					.08	1.75		.20	.34				T.				.59			.35	4.79		
Biglerville	Potomac																																	
Bloersville	Lower Susq.								T.	2.20						T	2.45		1.23									.45		.05		6.38		
Bustleton	Lower Del.							T.			1.06						1.21	T.	.15									.05	.60		.48	3.55		
Carlisle	Lower Susq.									.74							1.63	.35		1.16	T.	T.	T.	T.				.24			.63	6.18		
Catawissa	N. Br. Susq.									.38	T.					T.	.42	.38		.55								.01	.28		.12	.11	5.61	
Center Hall	Susquehanna									.97	T.	T.					2.65		.64			T.	T.					.05			.02	3.74		
Chambersburg	Potomac																10.2	1.6		1.00	.29							.30			.30	5.12		
Clearfield	W. Br. Susq.		T.	.08		.05				.50	.30	.03				.03	1.00		.50	T.	T.	T.	T.	T.			.15			.15	.30	3.09		
Coatesville	Lower Del.		.01						.01	.88	.14						13.2	.08		.35	.80							.52			1.05	5.47		
Colebrook	Lower Susq.									.72	T.	T.					10.3	.45		.80	.29							.53			.27	6.16		
Conshohocken	Schuylkill								T.	1.69							.08	1.82		.08			T.						.78		.56	T.	5.01	
Cresson	Juniata				.01					.81	.07						1.59	.09		.92	.01	.04	.03					.54					4.22	
Doylestown	Lower Del.		T.						T.	1.38	.21					T.	T.	1.21											.42			.95	4.28	
Driftwood	W. Br. Susq.	.20				.10	T.			.02	.30	.05					.70	.40		.74	.02				T.			.02	.25	.01	.28	3.09		
Emporium	do.		.26		T.	.05				.48	.10	T.					1.32		.63	T.	.07	.05			T.			.45	T.		.20	.20	3.81	
Ephrata	Lower Susq.		T.							1.05	.01	T.					.03	2.22		.03	.86							.76	.03		.30	5.29		
Forest City	N. Br. Susq.			.14		T.				.04	.90						1.92	.28		.71			T.	T.					.62		.24		4.85	
Freeland	Lehigh	.30	.08			.01				.22	1.33						.05	2.44	2.27		.01			T.	T.			.10	.65		.18	7.65		
George School	Lower Del.		.02							.41	.80					T.	.05	1.01					T.					.25	.49		.02	.52	3.57	
Gettysburg	Potomac									.87							.42	3.50		.20	.95							.38	.04		.30	6.71		
Girardville	Susquehanna				T.					1.58	T.						.83	3.62		1.01	.27	T.	T.				.01	.45		.01	.19	7.97		
Gordou	Lower Susq.			.05						.78	.53						.48	4.45			1.45	T.						.47	.16		.22	8.59		
Gouldsboro	Lehigh	.04	.05							1.66							.20	1.80		2.28	.80								1.02		.26		8.11	
Graterford	Schuylkill	.24	.02						.07	.68	.72					.02	T.	1.17	.18		.36							.03	.14		.47	4.10		
Hamburg	Schuylkill									.83							.13	1.17		.04	1.25							.11	.48		.25	4.26		
Hamlin	Upper Del.	.05							.18	1.50						.10	.60	1.40		.70							.05			1.00	.05	5.63		
Hanover	Lower Susq.									.56							.05	2.18		.11	.77							.57	.05		.30	4.59		
Harrisburg	do.									.71	T.						.39	1.83		1.12			T.				.07	.29			T.	.30	4.71	
Harrisburg East	do.									.89	.01						.25	2.08			.96	T.						.33			.26		4.78	
Harrisburg North	do.									.24	.79						.16	1.79	.98		1.08							.09	.26		.26		5.65	
Hawley	Upper Del.						.06			.02	.47						*	.72	2.43				T.					.08	.35		.21		4.34	
Holtwood	Lower Susq.	.46								.33	.52						.10	1.30	.92		.73							.06	.48		.40		5.30	
Huntingdon	Juniata		.01			.01				.91	.02						.02	1.66	.02	.50	.34	T.	.02					.23	.03		.21		3.98	
Hyndman	Potomac				.02				T.	1.38	.02	T.					T.	1.59	T.	.91	T.	T.	T.	T.				.42	.01		.17		4.52	
Lancaster	Lower Susq.									1.52							.04	4.20		.80								.62			.44		7.62	
Lansford	Lehigh	.25	.05							.37	.88						.08	1.80	1.44		1.32							.12	.87		.20		7.38	
Lawrenceville	N. Br. Susq.		T.		.10	T.				.20	T.						1.65			T.	.54							.07			T.	.23	2.79	
Lebanon	Lower Susq.	.04							.18	.43	T.	T.				.06	1.52	1.90		1.04		T.						.13	.67		.27		6.24	
Lewisburg	W. Br. Susq.		.03							1.80	.12						.14	3.54	.01	.04	1.11							.21	.04		.20		7.24	
Lloyd	do.									.92	.03						.18			.62	T.	T.	T.					.18			.18		3.76	
Lock Haven	do.		.02							.92	.03						.41	4.86		.15	.95			T.				.40		.05	.22		8.69	
Lykens	Susquehanna	.02	.01							1.22	.40						.31	3.21				T.	T.						.75		.25		5.62	
Mauch Chunk	Lehigh		.20		.01				.01	.83	.05						.31	3.21				T.							.75		.25		5.62	
Millintown	Juniata									1.01							.04	3.10		.35	.53		T.					.24			.17		5.44	
Montrose	N. Br. Susq.									1.47							.05	2.90	.15												.33		4.85	
Morris Run	N. Br. Susq.	.05		.02	.01					.69	.04	.02					.05	3.24		.39	.45	.03						.14	.05		.44		5.62	
Mt. Pocono	Upper Del.																.23	4.68		.07	.76	T.	T.					.37	.14				8.07	
Mount Union	Juniata																			.07	.76	T.	T.											
Muncy Valley	W. Br. Susq.		T.	T.						1.82	T.						.23	4.68		.07	.76	T.	T.						.37	.14				8.07
Narberth	Lower Del.		.02							.03	1.50	.30					.02	.03	1.59		T.													

Daily Precipitation for November, 1926—Continued from page 53

Stations	Drainage Basin	Day of month																															Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio Drainage.																																	
Beaver Dam|||	Ohio	.15	.07							.27	.50	.01	T.				1.63	.03	T.	.15	.01			.01	.02	.01	.08	.14		T.	.69		3.77
Beaver Falls|||	Beaver	.12	.07			T.				.36	.49	T.	T.				1.21	.02	T.	.12	T.	T.	T.	.02	T.	.07	.17	T.	T.	.45		3.10	
Bradford	Allegheny		.31	.02	T.	.06				.36	.14	.04	.02				1.46	T.	.31		.08	.07	.02	.04	T.	T.	.33	T.	.41	.15		3.82	
Brookville	do		T.							.20	T.	T.			.50	.55	T.	.25	T.		T.	T.			T.	.15	T.	.75				2.40	
Claysville	Ohio		.03							.41	.04						1.86	T.	.19	T.	.01	.02				T.	.05	T.	.19	.19		2.99	
Cloeff	Allegheny	.05	.04		.03	.04			T.	.26							.02	.72		.55						.05	.15		.30			2.24	
Clymer††	Conemaugh		.06							.33	.08						.76		.41	.04	*	*			.04		.14	.06		.10	.37		2.39
Confluence|||	Youghiogheny	.10								.55							.52	.17		.26		.03				.10	.20		.15			2.08	
Coraopolis|||	Ohio	.14	.09			T.				.04	.28	T.	T.				1.97	.05	T.	.17	T.	T.	T.		T.	.09	.09		T.	.52		3.44	
Corry	Allegheny	.05	.39	T.	.01	.26				.70	.45	.27	T.				1.66	.04	.50	.03	.25	.13	.02	.15	.03		.13	.33	T.	.30		5.70	
Coudersport	do					T.				.63		.32					.30	1.10		T.		T.						.58				2.93	
Creekside	Allegheny		.22							.44							1.17		.76			.02		.02	.06		.26		.49			3.44	
Derry	Conemaugh		.03							.26	T.	T.					.90		.36		T.	.07			T.		.10		.10	.25		2.07	
Donora	Monongahela				.04			.09		.25	T.						1.03	.69	.19	T.				T.		.09			.32			2.70	
Ebensburg	Conemaugh									.63							T.	.96	.42	T.						.15			T.	.23		2.39	
Elk Lick	Youghiogheny									.68							1.20		.38		.20				.08	.28	.20		.40			3.42	
Falls Creek	Allegheny		.09							.40	.16						.94		.43			.19		.04		.26	.05		.36			2.92	
Franklin|||	Allegheny	.09	.11							.15	.67	.03					1.53	.18	.02	.59	.04	.05	.02	.05		.09	.46	.02		.40		4.50	
Freeport|||	Allegheny	.01	.04							.19	.24						1.95	.19	.06	.30					.02		.09			.45		3.64	
Greensburg	Youghiogheny									.25	.01	T.					1.13	.01	.43	.01	.01	.02		.02		.07	.02	T.	.08	.28		2.34	
Greenville	Beaver		.14	.01	T.	T.				.82	.05	T.					1.52	.01	.22	.06	.14	.03		.05	.02		.44	.10		.28		3.89	
Grove City	Beaver		.13							.79	.95	T.					1.63	.03	.20	.01	.07	.02	.01	.04		.20	.13		.49	.01		4.61	
Herrs Isl. Dam|||	Ohio	.09	.02	T.		.01				.05	.28	T.	T.				2.15	.06	.02	.20	T.	T.	.01		T.	T.	.09	.02	T.	.48		3.48	
Indiana	Conemaugh									.40	T.						1.00	.40	T.	T.	T.								.20	.40		2.40	
Ingram	Ohio		.05			.01				.30	.02	T.					1.62	.16	.01	.21	T.	.01	.01		.01		.11	.05		.35	.21	3.67	
Irwin	Youghiogheny	.02								.16	T.	T.					.84	.05	.50	T.	T.	T.			.03		.11	T.		.15	.24	2.10	
Johnstown	Conemaugh	.07	T.			.07				.54	.09	.01					.04	.97		.41	.04	.02	.03	.02		.01	T.	.28	.06	.03	.13	2.82	
Kegonsa|||	Youghiogheny				.03			T.	T.	.50	.05					T.	.65	.23		.52		.04			.05	.03	.11	.05		.22		2.48	
Linesville|||	Beaver		.11		.01	.03				.29	.16	.05	.03				1.39	.06	.02	.23	.16	.05	.04	.07	T.		.04	.36	.02	.04	.14	3.30	
Lock No. 4|||	Monongahela	.20	.01		.02					.08	.32						1.90	.05	.02	.18	T.	T.		T.		.07	.22					.36	3.43
Lycippus	Conemaugh									.34							.60			1.17					T.		.07			T.	.40	2.58	
Martin	Monongahela									.26	.02	T.					2.11		.19	T.	T.	.03				T.	.07		.33	.22		3.27	
Mount Lebanon	Ohio		.04							.15							1.31	.04	.02	.26	T.			.05		.22		.10	.36			3.70	
New Castle|||	Beaver		.08					.80		.31	.05	T.					1.25	.01	.13	T.	T.	T.				.08	.06		.05	.05		2.00	
Newell	Monongahela	.01	T.		T.					.03	.30	.05	T.				2.15	.05	.05	.45	.05	.30	.05	.10	T.	T.	.05	.30	T.	T.	.80	4.79	
Parkers Landing|||	Allegheny	.06	T.	T.						.03	.30	.05	T.				T.	2.15	.05	.05	.45	.05	.30	.05	.10	T.	T.	.05	.30	T.	T.	.80	4.79
Pennline|||††	Beaver		.20			T.	.08	.04		.34	.14	.05					1.25	.01	T.		.16	.17	.01	.05			.05	.41	.01	.13	.18	3.28	
Pittsburgh***	Ohio	.02			T.				.06	.31	.01	T.					1.29	.84	.01	.24	T.	T.		.01		.01	.05			.38		3.27	
Ridgway	Allegheny									.08	.22						.02	1.10	.10	.02	.50	.01	.02	.01	T.	T.		T.	.21		.46	2.82	
Saegertown|||	Allegheny	.08	.04							.03	.08		.28				.07	1.41	.13	.48	.10	.11	.04	.03	.04		.06	.67	.02	.17	.04	5.06	
Saltsburg|||	Conemaugh	.05	.25	.04	.02	.14				.69	.35	.02					1.29	T.		.14	T.	T.	.02	.02		.15	.04		.02	.14		3.06	
Sharon|||	Beaver	T.	.18																							.15	.04		.02	.14			
Somerset	Youghiogheny		T.	T.		T.				.55	.20	T.					T.	1.18		.38	T.	.07	.03		.02		.13	T.			.19	2.75	
Springdale|||	Allegheny	.09	.06			.01				.12	.33	.04					1.83	.16	.02	.25	.02					.05	.05			.51		3.54	
Uniontown	Monongahela		.04		.06					.30	.06						1.01		.28	T.	T.	.01			T.		.05	T.		.03	.30		2.14
Unity Reservoir††	Youghiogheny		T.							.28	.06						.85		.38								.12	.08		.15	.26	2.18	
Vandergrift	Conemaugh	.10							.08	.31							.42	.90		.50						.08	.20		.40			2.99	
Warren	Allegheny	.10	.36			.07				.52	.34						1.41		.35	.10	.18	.15	.04		.04		.30	.18		.49		4.63	
Washington	Ohio	.08						.01		.22	.01						1.55	.48	.02	.22	.02	T.	T.			.01	.03	.01		.31	T.		2.97
Westford|||	Beaver		.08		.05	T.				.39		.05					1.27	.06		.15	.12	.18	.12	.05		.16	.32	T.				3.00	
West Newton|||	Youghiogheny	.16				.03				.09	.27						1.50	.05		.31			T.	T.		T.		.04	.18		.41		3.04
Zelienople|||	Ohio	.10	.05							.28	.51	.04					1.58	.04	T.	.20	.02	T.	T.	T.	.05	T.	.10	.24	T.	.02	.69		3.92
Lake Drainage.																																	
Erie***	Lake Erie	.05	.15	.01	.08	.25			.26	.20	.05	T.				T.	.58	.67		.48	.24	.08	.19	.03	.14	T.		.07	.06	T.	.15		3.74
West Bingham	Genesee		.09		.05	.20				.36	.05						1.37		.30			.05	.05		.05		.35			.17	.15		3.24

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. *** Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

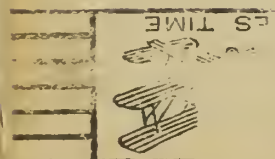
* Precipitation included in the next following measurements

T. (trace) when precipitation is less than .01 inch. § Incomplete or missing. † Daily amounts inconsistent. ‡ Post Office addresses are as follows: of Bloersville, Newville; of Cloe, Punxsutawney; of Clymer, Indiana; of Pennline, Linesville; of Promise Land, Greentown; of Snow Hill, Anomink; of Unity Reservoir, Greensburg. ‡ Mdt. to mdt.

Daily Temperatures for November, 1926

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum...	52	48	45	45	49	56	61	64	70	46	37	40	48	60	71	67	56	52	45	35	38	40	43	47	43	58	40	38	47	47	49.6	
	Minimum....	31	33	39	25	28	31	31	34	49	37	27	21	23	30	43	52	39	35	37	32	34	26	28	30	26	27	38	21	22	32	32.0	
Altoona.....	Maximum...	52	43	36	42	40	56	64	53	59	56	29	39	47	58	61	63	54	46	44	29	29	37	43	41	38	48	48	36	38	40	45.6	
	Minimum....	30	34	31	27	35	29	32	37	48	27	20	12	26	33	51	41	32	40	29	28	25	23	30	29	21	33	25	16	28	33	30.2	
Beaver Dam.....	Maximum...	49	50	40	43	46	57	64	69	66	59	33	45	59	71	75	75	55	53	39	34	33	40	44	44	50	60	58	50	55	49	52.2	
	Minimum....	32	37	32	27	38	31	35	32	50	39	22	16	29	37	54	41	34	37	31	30	27	26	33	30	24	45	28	20	37	36	32.7	
Bradford.....	Maximum...	47	43	35	35	38	.....	.....	63	63	55	30	38	52	62	64	62	51	49	.....	46	35	37	.....	39	.....	51	51	38	45	45	47.0 ^a
	Minimum....	23	34	32	29	33	.....	.....	29	53	25	18	11	29	32	50	38	35	41	.....	26	25	24	.....	28	.....	19	21	13	36	32	29.4 ^b
Brookville.....	Maximum...	47	40	37	44	41	.....	62	66	62	41	33	40	47	61	62	51	45	32	.....	30	30	36	34	39	43	52	35	42	44	39	44.7 ^b
	Minimum....	27	32	27	26	25	.....	24	28	39	22	11	7	24	29	36	31	29	29	.....	27	25	24	25	24	18	33	20	17	30	32	25.8 ^b
Carlisle.....	Maximum...	56	46	47	49	48	58	61	56	66	58	38	44	47	58	70	66	60	50	51	39	36	43	50	46	46	46	48	41	43	45	50.4	
	Minimum....	28	35	36	25	30	25	26	35	50	33	27	19	25	35	38	48	34	32	32	30	25	28	25	22	32	32	20	28	35	.....	30.7
Catawissa.....	Maximum...	51	43	46	49	60	48	62	63	70	40	41	46	49	66	69	68	60	53	46	59	40	43	43	44	57	44	40	42	41	.....	50.9
	Minimum....	25	34	34	40	39	25	27	27	45	38	22	13	26	35	41	44	38	30	32	32	30	28	30	28	21	40	34	15	30	32	31.2	
Chambersburg.....	Maximum...	53	47	46	46	47	57	61	52	66	58	38	41	47	61	66	66	54	50	49	39	34	42	49	48	45	43	50	38	41	47	49.4	
	Minimum....	28	34	34	22	32	26	26	35	51	32	27	16	26	33	36	46	36	33	31	34	31	21	27	24	23	31	31	29	26	35	30.5	
Claysville.....	Maximum...	54	52	39	46	47	60	67	68	62	60	34	48	60	70	78	74	55	52	35	31	30	40	43	45	53	62	58	59	58	50	53.0	
	Minimum....	28	33	23	22	35	32	36	36	53	26	17	14	30	37	51	36	33	33	28	27	25	22	30	30	22	48	25	15	46	33	30.9	
Clearfield.....	Maximum...	46	45	39	47	43	58	70	65	63	54	49	45	46	60	63	64	64	64	44	32	35	38	46	41	38	53	41	35	39	36	48.8	
	Minimum....	25	35	33	32	32	26	25	30	52	20	25	12	24	30	41	40	34	35	30	30	24	28	30	26	27	26	15	26	28	30	29.0	
Coatesville.....	Maximum...	53	48	44	46	48	53	60	66	70	62	35	38	48	62	69	65	53	55	56	40	37	39	44	47	42	56	35	49	46	.....	50.7
	Minimum....	25	29	29	21	26	25	28	40	50	32	21	15	21	21	49	47	32	30	29	28	31	24	26	23	21	27	17	23	37	.....	28.9
Corry.....	Maximum...	45	43	37	36	37	54	63	65	56	55	33	36	48	66	68	64	61	45	35	31	28	35	32	38	45	52	52	41	48	40	46.0	
	Minimum....	24	32	30	30	30	32	36	34	52	23	20	13	30	38	50	64	33	32	26	26	22	19	27	29	19	36	22	17	38	31	29.6	
Emporium.....	Maximum...	47	44	38	40	39	56	59	60	63	56	32	38	51	61	64	65	51	48	40	33	33	37	35	34	38	51	51	35	38	39	45.9	
	Minimum....	23	37	32	28	35	27	28	30	54	26	18	15	27	30	50	41	35	38	31	30	28	26	31	30	20	37	22	12	33	35	30.3	
Erie.....	Maximum...	48	41	39	40	44	56	58	64	61	39	31	40	52	67	71	53	52	50	33	33	32	35	37	41	46	57	36	51	55	38	46.6	
	Minimum....	35	35	34	33	34	39	44	45	39	25	26	23	38	45	53	39	37	33	29	29	25	23	30	32	26	36	23	22	38	34	33.5	
Franklin.....	Maximum...	49	44	38	44	44	62	67	65	57	49	31	43	53	67	70	50	52	47	34	31	28	40	43	48	54	45	40	43	36	.....	47.1
	Minimum....	28	33	32	29	31	28	32	30	48	28	20	12	13	27	35	44	34	35	27	28	25	21	22	28	19	21	24	20	42	37	27.1	
Freeland.....	Maximum...	42	38	36	38	35	46	50	54	60	54	29	32	48	48	58	59	44	42	40	32	30	30	32	43	36	48	48	8	40	24	37	42.0
	Minimum....	24	30	26	20	26	28	32	40	46	26	14	12	20	30	40	38	28	30	24	22	22	20	24	28	15	28	18	8	24	29	25.7	
Gettysburg.....	Maximum...	51	54	49	51	51	58	64	61	68	61	41	44	49	58	66	66	59	55	61	42	40	47	55	54	52	44	50	40	48	48	52.9	
	Minimum....	27	32	31	23	33	27	29	41	54	32	26	17	27	35	39	48	48	35	33	31	31	30	22	30	26	23	31	18	26	38	30.8	
Greensburg.....	Maximum...	55	52	40	44	44	56	65	69	65	59	30	44	60	72	73	68	59	49	39	32	30	37	42	43	50	60	56	54	56	47	51.7	
	Minimum....	29	35	30	26	36	32	37	44	54	28	22	16	31	45	52	41	34	35	28	29	25	25	30	33	23	45	26	21	45	36	33.0	
Grove City.....	Maximum...	45	44	38	40	42	50	51	60	60	56	29	36	49	64	65	65	49	36	30	28	34	35	38	42	53	54	45	46	43	.....	45.9
	Minimum....	29	25	32	25	34	32	34	38	53	25	12	15	30	38	52	37	33	35	18	17	15	22	28	34	23	39	25	23	41	27	30.0	
Hamburg.....	Maximum...	53	46	44	46	46	57	66	67	64	71	36	38	45	64	67	67	56	50	51	38	36	37	46	44	48	47	53	44	45	46	50.6	
	Minimum....	27	34	27	20	28	26	30	32	37	36	26	16	24	37	40	51	38	32	36	28	24	21	27	26	24	33	35	17	19	34	29.5	
Harrisburg.....	Maximum...	50	46	43	44	45	54	58	60	69	59	36	40	47	56	68	67	55	52	43	38	36	41	46	47	42	51	49	36	45	43	48.9	
	Minimum....	35	40	36	29	38	33	37	50	52	32	29	25	32	39	46	44	41	38	35	34	30	28	34	32	31	34	28	22	29	38	35.0	
Hawley.....	Maximum...	51	46	39	41	40	56	62	62	65	64	35	39	55	61	62	64	53	48	46	37	35	40	39	44	43	48	54	41	42	42	48.1	
	Minimum....	23	37	33	19	28	21	25	31	36	34	21	12	22	32	38	50	38	25	34	30	28	26	30	31	21	32	26	15	26	35	28.6	
Huntingdon.....	Maximum...	54	48	41	45	45	59	65	57	66	57	34	42	48	59	66	67	55	52	47	34	33	43	42	44	44	50	52	39	41	41	49.0	
	Minimum....	27	38	35	27	33	26	32	51	31	25	13	25	23	29	38	45	39	36	30	32	29	25	25	22	19	37	16	26	35	.....	30.0
Indiana.....	Maximum...	53	49	36	41	40	56	64	65	63	57	31	41	60	68	66	57	65	52	39	30	29	35	49	41	45	55	55	44	52	47	49.5	
	Minimum....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Johnstown.....	Maximum...	54	44	37	44	43	59	64	63	65	55	30	43	52	65	65	54	55	48	38	34	30	37	44	43	43	54	48	41	47	46	48.2	
	Minimum....	33	34	31	28	37	31	30	47	54	25	22	16	30	38	44	40	36	38	31	30	26	32	29	25	34	26	21	30	35	.....	32.1
Lancaster.....	Maximum...	58	60	53	51	55	59	67	66	74	70	65	65	60	66	72	74	67	68	56	55	48	44	51	47	48	55	63	40	55	53	58.8	
	Minimum....	27	32	33																													

1990



CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION.

GEORGE S. BLISS, Meteorologist.

PHILADELPHIA, PA.

VOL. XXXI.

DECEMBER, 1926.

No. 12

GENERAL SUMMARY.

This was a cold and somewhat severe month, it being the coldest December since that of 1919. It was severe because of the fact that the temperature deficiency accumulated during the first three weeks, and thereafter the conditions were mostly seasonable or slightly above the normal. The first three weeks averaged about six degrees below the normal, while the deficiency for the month as a whole was only 3.8°. Most of the month's snowfall in the central and eastern counties occurred on the 5th, being much earlier than usual. This snow practically stopped field work of all kinds, and much corn remained in the shock. During the month of November corn husking had proceeded slowly because it was mostly too wet to crib. The snow was very favorable for wheat, blanketing the fields heavily and protecting the roots of the grain from the severe temperatures that followed. A large part of the precipitation in this storm was rain in the southwestern counties. A storm on the 26th was heavy west of the mountains, and caused the greatest snows of the month in the northwestern counties. It was accompanied by considerable glaze deposit and strong winds that caused much wire trouble. This condition was reported from several places in the mountain district also, but did not extend to the south-central or eastern districts. This storm raised the streams in the southwestern part of the State to the bank full stage.

TEMPERATURE.

The mean temperature for the State, as determined by reports from 82 stations, was 27.3°, or 3.8° less than the December normal. The highest mean was 32.8° at Donora and Uniontown, while the lowest, 19.7°, was recorded at Freeland. The highest temperature recorded during the month was 62°, at Uniontown on the 13th, and the lowest, -20°, occurred at West Bingham on the 7th. The greatest daily range of temperature was 50°, at West Bingham on the 7th.

PRECIPITATION.

The average precipitation, from rain and melted snow, for the State, as deduced from the records of 134 well distributed stations, was 2.58 inches: a deficiency of 0.65 inch as compared with the December normal. The greatest monthly amount was 4.61 inches, at Unity Reservoir, and the least, 0.90 inch at Lloyd. The greatest amount recorded in any 24 consecutive hours was 2.50 inches at Driftwood on the 28-29th. The average snowfall for the State was 10.0 inches, which is 0.8 inch greater than the normal December snowfall. The greatest monthly snowfall was 40.0 inches, at Paupack, in Pike county, which station also reported the greatest 24-hour snowfall, 15.0 inches, on the 26th.

SUNSHINE, HUMIDITY AND WINDS

Stations	Sunshine			Humidity			Total move- ment, in miles	Wind			
	Total hours of Sunshine	Number of hours possible	Percentage of possible	Average per cent				Velocity, in miles per hour			
				8 a m	12 noon.	8 p. m.		Average	•Highest	Direction	Date
Erie.....	17.4	284.5	6	75	70	69	12,390	16.7	46	sw.	16
Harrisburg.....	130.3	290.6	45	75	64	65	5,106	6.9	30	n.w.	1
Philadelphia.....	132.2	290.6	45	77	75	79	7,586	10.2	38	ne.	4
Pittsburgh.....	45.6	287.3	16	86	80	78	8,787	11.8	48	sw.	26
Reading.....	104.2	290.6	36	78	70	74	4,655	6.3	23	n.w.	4
Scranton.....	104.2	287.3	36	86	78	81	5,129	6.9	25	w.	1

* For any five-minute period.

COMPARATIVE DATA FOR DECEMBER

Year	Temperature			Precipitation			No of days		
	Mean	Highest	Lowest	Mean	Greatest	Least	Clear	Partly cloudy	Cloudy
1888.....	32.5	62	-10	3.14	5.57	1.44	8	8	15
1889.....	39.6	73	0	2.77	5.05	0.85	11	9	11
1890.....	27.2	59	-11	3.97	9.68	1.72	7	8	16
1891.....	38.4	68	-3	4.09	6.53	2.00	12	8	11
1892.....	27.8	70	-13	1.69	4.37	0.40	7	9	15
1893.....	32.2	70	-7	3.06	6.07	1.41	6	11	14
1894.....	32.4	66	-28	3.95	5.93	2.27	10	9	12
1895.....	34.2	70	-10	3.22	6.55	1.40	10	9	12
1896.....	30.6	67	-13	1.20	2.62	0.40	10	9	12
1897.....	33.0	73	-6	3.95	6.25	1.28	6	8	17
1898.....	29.8	68	-11	2.98	4.79	1.31	10	8	13
1899.....	31.5	73	-11	3.04	6.00	1.18	10	10	11
1900.....	31.2	65	-2	2.08	4.16	0.40	8	9	14
1901.....	29.1	72	-18	5.91	10.26	2.62	7	9	15
1902.....	28.4	68	-12	5.54	8.51	1.97	7	7	17
1903.....	25.4	60	-14	2.66	4.83	0.92	8	9	14
1904.....	25.8	71	-19	2.48	3.71	1.32	7	7	17
1905.....	33.6	65	-8	3.57	5.48	0.95	10	7	14
1906.....	30.8	67	-14	3.97	7.08	1.69	5	5	21
1907.....	33.2	68	-8	4.30	7.89	1.85	7	8	16
1908.....	32.0	74	-2	4.61	4.61	1.26	9	8	14
1909.....	27.0	71	-10	8.50	1.19	0.64	8	8	17
1910.....	24.4	68	-14	2.45	4.41	0.64	8	6	17
1911.....	36.3	70	5	3.27	5.99	0.75	7	5	19
1912.....	34.4	74	-8	3.27	6.48	1.70	9	7	15
1913.....	34.2	66	-7	2.63	4.11	0.69	9	6	15
1914.....	27.3	69	-28	4.63	7.74	2.43	8	5	18
1915.....	29.4	73	-7	4.06	6.53	1.36	6	8	17
1916.....	29.7	73	-12	3.07	6.38	0.59	11	9	11
1917.....	21.5	52	-28	1.78	5.16	0.60	10	8	13
1918.....	36.6	72	-1	3.38	5.74	0.90	9	7	15
1919.....	25.3	66	-23	2.61	4.75	0.95	9	8	14
1920.....	33.4	68	-7	3.28	6.77	1.53	7	9	15
1921.....	31.6	66	-11	2.59	6.25	0.91	8	8	15
1922.....	31.5	69	-9	2.75	4.55	1.19	10	8	13
1923.....	39.6	71	1	4.99	8.55	2.42	9	7	15
1924.....	29.8	69	-23	2.13	4.42	0.56	7	7	17
1925.....	30.7	62	-15	1.72	3.93	0.69	8	7	16
1926.....	27.3	62	-20	2.58	4.61	0.90	8	7	16

RIVER CONDITIONS

Stations	Rivers	Mean stage	Highest stage	Date	Lowest stage	Date	Flood stage
Port Jervis.....	Delaware.....	3.4	4.4	1	3.0	29	18
Phillipsburg.....	Delaware.....	1.0	1.0	1	0.8	9	22
Mauch Chunk.....	Lehigh.....	1.0	1.0	1	0.8	9	12
Wilkes-Barre.....	Susquehanna.....	5.2	7.9	2	3.7	20	20
Williamsport.....	Susquehanna.....	2.9	4.1	1	1.3	6	20
Harrisburg.....	Susquehanna.....	5.2	5.5	1	4.8	9	17
Freeport.....	Allegheny.....	7.8	11.7	15	4.6	31	22
West Newton.....	Youghiogheny.....	4.0	8.5	21	1.6	3	20
Lock No. 4.....	Monongahela.....	18.7	28.3	27	13.9	20	31
Pittsburgh.....	Ohio.....	14.6	19.1	27	11.2	20	25
Beaver Dam.....	Ohio.....	12.3	18.4	27	6.1	21	30

Climatological Data for December, 1926

Stations	Counties	Elevation, feet	Length of record, years	Temperature, in degrees Fahr						Precipitation, in inches				No. of days				Observers		
				Mean	Departure from the normal	Highest	Date	Lowest	Date	Greatest daily range	Total	Departure from the normal	Greatest in 24 hours	Total snowfall (unmelted)	Precipitation 0.1 in or more	Clear	Pt. cloudy		Cloudy	Prevailing direction of wind
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	14	26.8	.....	46 ^d	14	3	8	35 ^d	2.75	-1.10	1.13	6.6	11	13	11	7	nw.	John A. Frick.
Altoona.....	Blair.....	1,615	39	25.9	-3.1	47	14	-4	18	28	2.47	+0.12	0.96	20.0	13	9	1	21	w.	Lewis E. Biller.
Bethlehem.....	Northampton.....	295	42	28.6	-4.5	43	1 [†]	7	7	23	1.65	-1.85	0.56	6.8	9	12	5	14	nw.	Lehigh University.
Biglerville.....	Adams.....	652	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Vacant.
Bustleton.....	Philadelphia.....	125	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Experiment Station.
Carlisle.....	Cumberland.....	467	59	28.8	-2.5	48	23	4	7	32	3.39	+0.38	1.28	5.0	11	12	3	16	nw.	Prof. C. E. Miller.
Catawissa.....	Columbia.....	520	29	26.2	-5.4	44	11 [†]	-9	7	39	1.42	-1.58	0.60	12.2	8	14	5	12	.....	H. H. Yetter.
Center Hall.....	Center.....	1,272	30	25.2	-3.8	48	13 [†]	-8	19	34	1.93	-0.82	1.08	17.0	8	13	6	12	.....	S. W. Smith.
Chambersburg.....	Franklin.....	580	26	29.0	-3.9	46	1 [†]	4	19	27	2.56	-0.06	1.05	3.1	12	10	3	18	n.	William B. Spear.
Clearfield.....	Clearfield.....	1,120	16	25.8	-2.9	43	8	-7	19	35	1.63	-1.46	0.50	20.0	12	11	9	11	w.	E. W. Hess.
Coatesville.....	Chester.....	380	38	26.4	-6.6	45	1 [†]	1	7	27	2.75	-1.47	0.88	3.8	10	8	12	11	nw.	Prof. W. T. Gordon.
Colebrook.....	Lebanon.....	560	16	26.8	-5.1	44	1	2	7	24	2.56	-0.89	1.25	3.4	12	11	6	14	ne.	Wm. A. Rorer.
Emporium.....	Cameron.....	1,050	38	24.2	-4.9	47	8	-13	7	41	2.14	-1.12	0.70	17.0	9	7	7	17	w.	T. B. Lloyd.
Ephrata.....	Lancaster.....	380	25	29.0	-2.3	45	1 [†]	4	7	25	2.22	-1.29	0.93	2.8	10	10	5	16	nw.	Ira J. Keath.
Freeland.....	Luzerne.....	1,970	11	19.7	.....	38	13 [†]	-6	18	25	2.77	.....	0.93	19.6	18	8	5	18	nw.	Theo. Reichmann.
George School.....	Bucks.....	190	19	28.6	-3.7	48	1	-1	7	40	3.11	-0.70	1.05	8.8	8	11	11	9	n.	Prof. N. W. Swayne
Gettysburg.....	Adams.....	600	52	30.5	-1.2	50	1 [†]	4	19	32	1.88	-1.45	0.74	2.2	10	11	6	14	w.	Col. E. B. Cope.
Gordon.....	Schuylkill.....	840	22	24.5	-4.0	42	12	-10	7	39	1.01	-3.26	0.41	10.0	5	15	2	14	n.	Capt. J. G. Johnson
Gouldsboro.....	Wayne.....	1,875	2	21.6	.....	42	14 [†]	-5	18	34	1.49	-1.62	0.45	14.2	12	11	3	17	w.	Gustav Holtz.
Hamburg.....	Berks.....	535	33	26.8	-5.2	46	1	5	18	24	1.01	-2.84	0.40	7.0	6	10	12	9	w.	State Sanatorium.
Hanover.....	York.....	600	22	30.2	-3.6	49	1	6	19	26	2.04	-1.34	0.57	4.1	9	12	5	14	s.	Mrs. Mabel C. Wolcott.
Harrisburg.....	Dauphin.....	361	56	29.2	-3.5	45	1	8	18	25	2.60	-0.05	1.31	2.6	12	8	5	18	nw.	U. S. Weather Bureau.
Hawley.....	Wayne.....	900	7	22.0	.....	41	14	-12	7	44	2.67	.....	1.04	22.2	7	10	5	16	w.	J. S. Pennell.
Holtwood.....	Lancaster.....	200	11	29.6	.....	47	2 [†]	9	18 [†]	27	2.34	-0.15	0.76	6.5	10	10	9	12	.....	H. W. Lowy, C. E.
Huntingdon.....	Huntingdon.....	650	38	27.0	-4.5	46	21	-10	7	37	2.53	-0.56	0.95	9.2	10	7	6	18	w.	Prof. W. J. Swigart.
Hyndman.....	Bedford.....	977	.....	30.5	-1.6	48	8	-10	18 [†]	29	2.18	-0.69	0.64	2.0	12	3	3	25	.....	John S. Madore.
Lancaster.....	Lancaster.....	255	38	31.7	-1.7	50	1	4	7	34	2.31	-1.10	0.85	4.0	7	16	8	7	e.	Supt. of Water Works.
Lawrenceville.....	Tioga.....	1,000	28	23.2	-4.2	41	31	-17	7	43	1.84	-0.29	0.58	27.0	8	8	5	18	.....	C. P. Darling.
Lebanon.....	Lebanon.....	469	85	27.2	-4.7	44	21	5	7	33	2.16	-1.46	1.08	4.2	10	14	9	8	nw.	S. B. Benzing.
Lewisburg.....	Union.....	450	51	24.8	-4.2	43	1	-12	7	33	2.42	-0.84	0.72	16.0	10	12	6	13	w.	Prof. W. G. Owens.
Lock Haven.....	Clinton.....	560	36	26.0	-5.1	44	1	-7	19	39	1.31	-1.78	0.60	10.0	7	10	9	12	w.	Joseph Beaver.
Lykens.....	Dauphin.....	680	11	26.9 [†]	-3.8	44 [†]	13 [†]	-4	7	33 [†]	1.26	-1.77	0.35	4.5	8	15	6	10	nw.	Susquehanna Collieries Co.
Mauch Chunk.....	Carbon.....	600	35	26.0	-4.5	43	1 [†]	1	7	31	2.47	-1.77	0.95	8.7	11	12	8	11	e.	R. K. Wintermute.
Millintown.....	Juniata.....	445	22	27.1	-3.1	44	21	-4	7	27	1.66	-1.42	0.69	8.3	8	13	2	16	w.	Wellington Smith.
Montrose.....	Susquehanna.....	1,720	23	24.7	-0.9	41	14	3	4 [†]	26	1.40	-1.30	0.50	16.0	5	5	6	20	s.	Silas Jagger.
Mt. Pocono.....	Monroe.....	1,658	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Cecil J. Hoskinson.
Muncy Valley.....	Sullivan.....	1,045	14	23.6	-4.1	41	14	-10	19	34	1.70	-1.32	0.59	12.0	6	9	7	15	sw.	A. H. Boatman.
Narberth.....	Montgomery.....	300	7	28.8	.....	47	1	7	7	20	3.37	.....	1.15	5.4	13	10	6	15	nw.	Charles Decker.
Neshaminy Falls II.....	Bucks.....	60	37	26.6	-5.2	48	1 [†]	-3	7	41	3.15	.....	1.05	6.5	13	12	10	9	w.	North Springfield Water Co
Palmerton.....	Carbon.....	398	9	26.0	.....	45	21	-3	7	31	1.53	.....	0.68	7.2	5	17	11	3	sw.	F. G. Breyer.
Philadelphia.....	Philadelphia.....	114	55	32.3	-4.0	50	1	12	18	23	3.54	+0.50	1.30	4.4	10	8	8	15	n.	U. S. Weather Bureau.
Philadelphia-Gtn.....	Philadelphia.....	113	1	31.6	.....	48	11	11	18	22	3.06	.....	1.18	4.6	10	10	6	15	.....	Julius Bernstein.
Phila. Navy Yard.....	Philadelphia.....	12	10	31.0	.....	47	1 [†]	10	19	22	4.07	.....	1.83	4.1	11	.....	.....	.....	.....	Commandant, Navy Yard.
Phila. Point Breeze.....	Philadelphia.....	90	1	31.2	.....	48	1 [†]	10	19	22	3.54	.....	1.12	5.4	9	6	10	15	w.	Atlantic Refining Co
Phoenixville.....	Chester.....	100	15	27.4	-5.9	44	1 [†]	4	7	28	2.19	-1.03	1.03	4.1	6	15	11	5	sw.	North Springfield Water Co
Quakertown.....	Bucks.....	496	41	26.0	-5.1	44	21	-3	7	35	2.96	-0.58	1.15	7.1	13	10	11	10	nw.	John E. Benner.
Reading.....	Berks.....	325	56	29.2	-3.0	45	1	7	18	25	2.10	-1.22	0.99	5.2	13	8	7	16	nw.	U. S. Weather Bureau.
Scranton.....	Lackawanna.....	805	31	25.0	-5.7	42	13	3	19	30	2.06	-0.55	0.67	13.1	18	5	10	16	s.	U. S. Weather Bureau.
Selinsgrove.....	Snyder.....	455	36	26.2	-5.2	48	29	1	19	29	1.18	-2.03	0.52	12.0	11	7	16	8	w.	Dr. George E. Fisher.
Shawmont II.....	Philadelphia.....	51	30	29.1	.....	46	1 [†]	8	7	23	2.77	-1.12	0.99	4.5	9	9	13	13	nw.	W. S. Guiles.
State College.....	Center.....	1,217	41	26.3	-3.3	46	8	-4	7	32	2.02	-0.69	0.82	15.4	14	5	11	15	nw.	C. A. Kern.
Towanda.....	Bradford.....	754	31	22.3	-6.3	41	14	-8	19	30	2.14	-0.23	0.57	17.5	13	4	8	19	e.	Hiram E. Bull, C. E.
Wellsboro.....	Tioga.....	1,419	60	21.2	-7.0	40	14	-16	7	43	1.26	-1.34	0.46	30.0	7	19	3	9	sw.	George W. Hill.
West Chester.....	Chester.....	455	88	28.2	-4.8	45	1 [†]	5	18 [†]	25	2.60	-1.49	0.93	3.3	9	10	7	14	w.	Arthur M. Hay.
Williamsport.....	Lycoming.....	521	39	25.4	-5.1	41	1	-5	7	34	2.01	-1.04	0.78	15.5	9	9	4	18	nw.	George A. Beck.
York.....	York.....	400	38	28.8	-4.0	49	1	2	19	28	2.24	-0.90	0.79	5.0	8	11	8	12	s.	York Water Co.
Ohio Drainage.																				
Beaver Dam II.....	Beaver.....	700	33	30.8	-2.4	61	13	-2	18	34	2.24	-0.48	0.70	9.9	15	1	3	27	sw.	U. S. Engineer.
Bradford.....	McKean.....	1,427	11	24.1 ^d	.....	43 ^d	13 [†]	-12 [†]	18	42 [†]	2.43	.....	0.80	21.6	16	8	5	18	sw.	City Engineer.
Brookville.....	Jefferson.....	1,173	35	21.6	-6.3	44	13	-17	19	44	3.16	+0.33	2.00	15.0	7	15	9	7	.....	John Fawcett.
Claysville.....	Washington.....	1,150	22	30.5	-1.4	60	13	-9	18	37	3.25	+0.33	1.26	4.1	18	7	1	23	w.	J. L. Melvin.
Corry.....	Erie.....	1,430	14	24.0	-4.7	48	13 [†]	-8	18	37	2.85	-0.71	0.78	29.1	21	5	6	20	.....

Daily Precipitation for December, 1926

Stations	Drainage Basin	Day of month																															Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Atlantic Drainage.																																		
Allentown|||	Lehigh	T.			.02	T.	.38		T.		.24	T.	.02	.05	.04	T.	.03				T.	T.				.09	*	1.13		.75			2.75	
Altoona	Juniata	.02			.96				.02		.15	.08		.05		T.		T.	.01		.03		.33		.08		.09	.58		.13	.03		2.47	
Ansonia|||	W. Br. Susq.	T.	T.	.03	.13	.32		T.		.08		T.		T.												.03	.42	.02	T.	.28	T.		1.31	
Baker's Summit	Juniata				1.07									.30									.60			.31	.70		.20				3.18	
Bethlehem	Lehigh			.02		.42		T.	T.	.08	.06	T.		.03		.05					T.				.33		.10		.56				1.65	
Biglerville	Potomac																																	
Bloersville||	Lower Susq.				.20							.10		.25	.10						T.				.22		.90		.12			.06	1.95	
Bustleton	Lower Del.																				T.													
Carlisle	Lower Susq.			T.		.30			.08	T.	.20		.76	.05							T.		.20		.08	.05	1.28		.32	.07		T.	3.39	
Catawissa	N. Br. Susq.		.11		.60		T.		.15	T.	.01		T.	.20										.10	.20			.05					1.42	
Center Hall	Susquehanna				1.08					.24	.08			.04							T.				.01			.38		.05	.05		1.93	
Chambersburg	Potomac			T.		.36				.17	.08		.17	.01	.04						T.		.26		.09	.08	1.05		.15	.10			2.56	
Clearfield	W. Br. Susq.	.05			T.	.50	.12		T.		.15	.20	T.	.15	T.					T.		.03			.10	T.	.15		.09	.05		.04	1.63	
Coatesville	Lower Del.				.48				.03		.23		.13		.08						T.				.01	.11	.77		.37	.04		T.	2.75	
Colebrook	Lower Susq.	T.		T.		.32			T.	T.	.14	.04		.10	.02	.02					T.		T.		.04	*	1.25		.47	.12		.04	2.56	
Conshohocken	Schuylkill		T.		T.	.50			.14		.07	T.		.10		.04					T.					.28	.76		1.13			.11	3.13	
Cresson|||	Juniata	.80	.02		.06	.03	.05						.03		.03		.02				.04		.13		.07	.48	.03		.02	.22			2.00	
Doylestown	Lower Del.				T.	.69					.18				.10										T.		.79		1.10				2.86	
Driftwood|||	W. Br. Susq.	.10	.01	.02		.32	.32		.10		.34	.04	.02	.06	.04						.05	T.				.05	.51	.02		2.50	T.	.04	4.54	
Emporium	do.	.05		T.	T.	.70			.30	.05		.20	.24					T.			.15				T.	.35		.10					2.14	
Ephrata	Lower Susq.				.36				.01		.11	T.		.11	T.	.01									.04	.07	.93		.49	.09		T.	2.22	
Forest City	N. Br. Susq.	.05	T.		.13	.27	.11		T.	.22	.09	T.		.08							T.	.03		.16		.05	T.	.44		.28	T.	T.	1.83	
Freeland|||	Lehigh		T.	T.	.02	.04	.56		T.	.05	.24	T.	.08	T.	.08		.08			.06		.02	.01			.08	.93	.07	.02	.32	.07	.04	2.77	
George School	Lower Del.				.11	.63					.10			T.	.20		T.				T.				T.	.06	.84		1.05	.12			3.11	
Gettysburg	Potomac				.02				T.		.18	.02		.30	T.	.01							.22		.02		.74		.30	.07			1.88	
Girardville	Susquehanna	T.		T.	.50		.02	.04	.12	.14	.03				.06			.03			T.				1.12		.22	.14				.03	2.45	
Gordon	Lower Susq.	T.			.34				T.	.02				T.												.08	.41		.16				1.01	
Gouldsboro||	Lehigh	.05			.18	.27			.18		.18				.10		.03		.05	.05	.09		.08		.05	.05	.25		.05	.10		.09	1.49	
Graterford	Schuylkill		.06		.78	.11			.08	T.		.14		.03							T.				.06	.14	.72		.43				2.55	
Hamburg	Schuylkill			T.		.40					.10				.10											.08		.22		.11			1.01	
Hamlin	Upper Del.			.05	.05	.55		.05		.32	.02		.08	.07		.10					.10					.12	.60		.40	.02		.20	2.73	
Hanover	Lower Susq.				.31				.61		.19		.19		.03								.29				.57		.40	.05			2.04	
Harrisburg***	do.	T.		T.	.20		T.		.14	.04	.06	.06	.14	.06				T.			T.	T.		.12	.72	.59		.40			.07		2.60	
Harrisburg East	do.				.40				T.		.19	.07		.22	.01	.03					T.		T.				.12	1.25		.26	.11			2.66
Harrisburg North	do.					.36			.01		.12		.08	.12	.05												.12	1.16		.09	.21			2.32
Hawley|||	Upper Del.				.12		.71			.31					.06						.14							1.04	.29				2.67	
Holtwood||	Lower Susq.				T.	.50		T.	T.	.18	T.		.11	.08		.10								.05		.04	.76		.22	.30			2.34	
Huntingdon	Juniata	T.		T.	.95				.15		.15		.06		.06									.16		.19	.05	.61		.14	.16		2.53	
Hyndman	Potomac	T.			.56	T.			.07	T.	.17		.04		.04						T.	.02	.24	.20	.02	.08	.64		.10	.04	T.	T.	2.18	
Lancaster	Lower Susq.				.30						.33				.10												.04	.85		.50	.19		2.31	
Lansford|||	Lehigh				.03		.42			.17		T.	T.	.04	T.												*	*	.83	.11	.17		1.77	
Lawrenceville	N. Br. Susq.			.05	.58				T.	.15	T.	T.	T.	.04	T.		.05				.05						.46		.25	.25			1.84	
Lebanon	Lower Susq.			T.	T.	.33		.01		.15	T.	.07		.07		T.		T.		T.	T.	T.		T.	.05	1.08	T.	.02	.36	T.		.02	2.16	
Lewisburg	W. Br. Susq.			T.		.80				.26	.02		.11		.05		.05								.07		.72		.32			.02	2.42	
Lloyd	do.			.01		.42																				.18			.09	.08	.12		0.90	
Lock Haven	do.			T.		.30				.28	T.		.08		.02		T.				.02					.06		.60		T.	.25		1.31	
Lykens	Susquehanna	T.		T.		.35	T.		.02	.17		T.	.11								T.				.14	.03	.26		.18				1.26	
Mauch Chunk	Lehigh		T.		.02		.60			.05	.29	.05		.05		.04		.01									.10	.85		.41			2.47	
Mifflintown	Juniata				.46					.18					.01	.02											.14		.69		.12	.04		1.66
Montrose	N. Br. Susq.				.50					.20												.20					.30		.20		T.		1.40	
Morris Run	N. Br. Susq.	.02			.01	.46			.03		.18	.02		.03	.03			.03				.02			.02		.48		.15	.23	.03		1.74	
Mt. Pocono	Upper Del.				.46																													
Mount Union|||	Juniata										.19	.06			.03																			
Muncy Valley	W. Br. Susq.				.49										.03																			

Daily Precipitation for December, 1926—Continued from page 58

Stations	Drainage Basin	Day of month																															Total			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Ohio Drainage.																																				
Beaver Dam|||	Ohio		.02			.32	.44	T.	.07	T.	.09	.02		.05					.05		.03	.03	.04		.03	.03	.67			.35	T.		2.24			
Beaver Falls|||	Beaver	T.	.02	T.		.32	.39	.01	.05	.01	.12	.02	T.	.05					.02		T.	.01	.11		.02	T.	.54			.36	T.		2.05			
Bradford	Allegheny		.08	.04	.08		.80		.12		.08	.06							.04		T.				.10		.43			.10	.34	.04		2.43		
Brookville	do	T.		T.		2.00			.18	T.	T.	T.	T.	T.	T.				T.	T.					.20	.25	.20			.25	.08		T.	3.16		
Claysville	Ohio	T.	.03			1.26			.04	.03	.05	.09	T.	.14	T.				.03	.01		.08	.01	.24		.07	.03	.73		.28	.14		.02	3.28		
Cloeff	Allegheny					.57		T.	.18	.09	.07	.06	.02	.23							.18				.13	.47	.10		.25				T.	2.35		
Clymer||	Conemaugh	*			*	.60			.16		.22	.08		.10		T.		T.			.18	.04	.26		.11		.76			.06	.10			2.67		
Confluence|||	Youghiogheny					.10	.84		.12	.07	.25	.04		.28	.08				.05		.15	.42	.45	.08		.23	.82			.26	.03			4.27		
Coraopolis|||	Ohio		.02	T.	T.	.22	.75	T.	.06	.01	.11	.03	T.	.11					.02		.01	.02	.19		.03	.03	.72			.01	.35	T.	T.	2.69		
Corry	Allegheny		.07	.02	.01	.06	.64	.03	.01	.27		.02	.15	.01	.02	T.	.02		.08		T.	.11			.17	T.	.78			.11	.23	.02	.02	2.85		
Coudersport	do				.13	.90					.40																.52			.30	.20			2.45		
Creekside	Allegheny	*	.04				.87		.29		.04	*	.02	T.	.32						.04	*	.25			*	*	.70			*	.37	.10		3.04	
Derry	Conemaugh					1.90			.11	.04	.25			.04	T.	.06		T.			.18	T.	.25		.21	.16	.72			.25	.16		T.	4.33		
Donora	Monongahela		T.						.05	.15	.09	.03	.09	.03			T.				.18		.18		.01	.60	.29			.37				\$2.07		
Ebensburg	Conemaugh					.30			.83	T.	.09	.20		.51								.30		.30		.10	T.	.20			.20	.10			2.83	
Elk Lick	Youghiogheny			.20					.90				.10		.25		.20				.10				.25	.40								3.10		
Falls Creek	Allegheny		.04			.60			.21		.22	.08		.16					.05		.16				.15		.61			*	.27		T.	2.55		
Franklin|||	Allegheny		.02			.50	.60		.21		.32	.02		.12					.02	.02		.07	.03			.02	.91			.41				3.27		
Freeport|||	Allegheny		.02			.24	.39		.10		.16			.20	.38				T.		.10	.10	.37		.02	.09	.71			.36	.03			3.27		
Greensburg	Youghiogheny		.01	.02		T.	1.53	.05	T.	.10	.05	.18	.03	T.	.14	T.	.02		.03		.23	.02	.23	T.	.24	.10	.84			.30	.08	.03	.04	4.27		
Greenville	Beaver		.06	.01	T.	T.	.72	.06	.05	.22		.05	.08		.11				.04		.07				.22		.82			.11	.22		.02	2.86		
Grove City	Beaver		.06	.02			.10	.08	.01	.20		.10	.06		.16				.04		.08	T.	T.		.27		.44			.10	.18		T.	1.90		
Herr's Isl. Dam|||	Ohio		T.	.02			.49	.74	.03	.08	T.	.11	.03	.01	.16	T.				.01	.09	T.	.20	T.	T.	.03	.75			T.	.34	T.	T.	3.09		
Indiana	Conemaugh		T.			.20			.40		T.	T.		.40					T.		.20	.20	.20		.10		.60			.10	.20			2.60		
Ingram	Ohio		.01	.03	T.		1.22	.03	.02	.07	.02	.11	.04	.01	.11				T.	.03		.07	.03	.20		.07	.16	.55			.32	.07	T.	.03	3.20	
Irwin	Youghiogheny		T.	T.			1.64	T.	T.	.10	T.	.14	.08	.02	.20				T.		.22	.04	.16	.01	.15	.40	.45			.44	.01		T.	4.06		
Johnstown	Conemaugh		.05	.02		1.40	.05	T.	.06	.05	.17	.09	.04	.09	.03	.02			.02		.14		.50		.04	.62	.43			.28	.05	T.		4.25		
Kregar|||	Youghiogheny		.03		.02		.70		.07		.10	.15		.13	T.	.02			.06		.19	.18	.23		.28	.70			.39	.03			3.28			
Linesville|||	Beaver		.02		*	.41	.17		.23		.04	.05	.01	.05	T.			T.	.05						*	*				1.32				2.35		
Lock No. 4|||	Monongahela		.02			.20	1.00	.01	.03	.06	.26	.02	.04	.09	.02			T.		T.	.16	.07	.30	.03	T.	.17	.90			.13	.33	.01	T.	3.85		
Lycippus	Conemaugh		T.	.01		1.80			.04		.18		.15	.04					.02		.27		.02		.40	.07	.70			.17	.27			4.14		
Martin	Monongahela								.09	T.	.14	.05	T.	.09					.03		.10		.20			*	.78			.38	T.	.05	.05		3.22	
Mount Lebanon	Ohio		T.			1.26	T.		.09	T.	.14	.05	T.	.09					.03		.10		.20				.78			.38	T.				2.38	
New Castle|||	Beaver					.02	.33		T.	.23	.05			.03					.09		.50		.16		.10	.61	T.		.29	T.					2.81	
Newell	Monongahela		T.			1.05	T.		.11	T.	.14	.05	.01					T.	T.	.02	.17	.02	.28	T.	.22	.05	.55			.28	.14		.01	3.10		
Parkers Landing|||	Allegheny		T.	.05	T.	T.	.20	.40		.15	T.	.30	.10	T.	.30	.14			T.	T.	.05	.12	T.		T.	.25	.40			.35	T.	T.		2.81		
Pennline|||	Beaver		.03			T.	.43	.18		.21		.03	T.		.04				.01	.05		T.			.10		.33			.28				1.79		
Pittsburgh***	Ohio		.06	T.	T.		1.10	T.	.01	.06	.08	.04	.06	.09	.05				.09		T.	.04	T.	.21		.05	.54	.26		.33	T.	T.	.05	3.12		
Ridgway	Allegheny																																			
Saegertown|||	Allegheny			.02	.01		.33	.41		.27	.03	.16							.08		.04						.96			.28		.04		2.63		
Saltsburg|||	Conemaugh		T.			.66	.61	.01		.20	.14	.08	.02	.20				.05			.10	.19	.33		T.	.20	.89			.05	.30	.01		4.04		
Sharon|||	Beaver					.51	.11		.18		.11	.02		.05					T.						.09		.82			.32	T.			2.21		
Somerset	Youghiogheny		T.			.62			.14		.04	.03		.12		.03			.03		.06	.03	.30		.16	.04	.56			.10	.02	.02	.02	2.32		
Springdale|||	Allegheny		.03			.24	.92	.01	.06	.03	.13	.06		.22					.02		.07	.04	.33	.01	.02	.08	.74			.03	.30	.01		3.35		
Uniontown	Monongahela		.04	.03	T.	.94			.16	.11	.39	.11	.02	.03		.02			T.		.23	.13	.23	.02	.40	.21	.49			.33	.21	T.	.02	4.12		
Unity Reservoir||	Youghiogheny		.03			1.40	.10		.13		.30	.15		.16	.05				.06		.28	.08	.27		.28	.10	.70			.30	.22			4.61		
Vandergrift	Conemaugh					.70			.10	.13	.04	.16	.20	.02					.05		.12		.47							1.05			.10	3.14		
Warren	Allegheny		.03	.18		.05	.55	.06	.40		.25	.05		.12					.05		.10						.06	.50			.45			2.85		
Washington	Ohio		T.	.01	T.	1.34	T.	T.	.05	.10	.02	.04	.11	.01			T.		.01		.12	T.	.27		.07	.80	T.		.36	.01	T.	.04	3.36			
Westford|||	Beaver					.39	.20		.03		.05	.17		.15					T.	.05		.03			.10		.73			.24				2.14		
West Newton|||	Youghiogheny		.03		T.	.30	1.05		.05	.05	.25	.05	.10	.17				T.			.20	.08	.26	.03	T.	.20	.81			.13	.30	T.		4.06		
Zellenople|||	Ohio		.02	T.		.40	.51	T.	.10	.04	.13	.03		.13					.01		.01	.02	.16	T.	.04		.76			.25	.15			2.76		
Lake Drainage.																																				
Erie***	Lake Erie		.02	.02	T.	.09	.61	T.	.05	.06		T.	.08	T.	T.	T.	.08	T.		.04	T.	T.		.02	T.			.14	.20	.62		.34	.08	T.	.10	2.55
West Bingham	Genesee		.05		.05	.15	.50	.30				.10	.10	</																						

Daily Temperatures for December, 1926

Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Allentown.....	Maximum... 43	27	33	38	33	22	33	38	33	38	38	41	37	46	28	23	34	20	25	34	44	41	32	36	41	32	35	....	....	....	....	34.3 ⁴
	Minimum... 34	21	15	16	11	11	4	3	18	18	28	26	26	35	23	13	13	8	9	10	24	33	20	21	27	29	16	18	30	21	21	19.4	
Altoona.....	Maximum... 38	28	30	42	27	27	24	45	34	33	34	37	36	47	24	24	30	24	23	40	41	34	35	32	42	31	34	30	32	22	36	32.8	
	Minimum... 26	16	14	26	13	14	0	24	25	27	30	16	33	24	17	5	17	-4	-3	18	34	29	14	29	32	24	15	23	22	15	15	19.0	
Beaver Dam.....	Maximum... 40	30	39	39	34	30	33	43	37	35	37	42	61	59	29	26	29	22	28	40	41	38	41	44	45	37	45	45	34	27	35	37.6	
	Minimum... 28	20	22	26	19	21	11	32	32	31	34	23	38	25	17	9	22	-2	2	27	36	34	34	31	30	28	21	31	23	18	22	24.0	
Bradford.....	Maximum... 36	26	36	35	....	33	31	42	33	33	33	....	43	41	31	24	23	15	....	38	38	35	43	42	42	....	37	34	33	25	34	33.9 ⁴
	Minimum... 23	10	15	9	....	8	-11	30	23	27	29	18	....	23	14	6	-12	-4	....	33	29	12	28	....	14	-1	28	23	13	18	15.4 ⁴	
Brookville.....	Maximum... 36	21	37	36	25	25	34	41	29	36	35	48	44	37	24	21	25	18	25	37	36	39	37	38	34	32	38	35	30	24	37	32.5	
	Minimum... 19	12	20	-1	9	-9	-10	25	18	27	17	6	34	9	5	5	-15	-9	-17	23	30	17	12	20	26	0	8	27	15	5	6	10.8	
Carlisle.....	Maximum... 46	38	30	39	24	29	28	40	40	40	40	42	45	38	48	33	26	38	32	27	31	43	45	48	35	42	35	38	33	39	31	33	36.5
	Minimum... 30	21	16	24	12	15	4	26	22	30	28	21	32	32	20	12	10	6	4	20	28	32	16	24	32	30	18	24	31	22	15	21.2	
Catawissa.....	Maximum... 42	30	33	34	21	26	7	35	35	40	44	41	40	44	26	25	21	22	27	30	40	43	37	28	40	36	34	42	40	42	34	34.3	
	Minimum... 30	17	10	25	18	9	-9	25	12	26	30	15	26	32	15	5	13	-2	17	17	20	27	8	25	26	27	4	27	26	21	15	18.0	
Chambersburg.....	Maximum... 46	34	32	39	29	31	29	42	41	39	40	42	38	43	32	26	38	32	25	33	46	37	36	35	41	35	38	33	38	31	32	35.9	
	Minimum... 26	22	17	29	15	16	10	25	27	30	29	24	34	32	22	11	18	5	4	18	28	33	18	22	32	29	19	24	29	21	18	22.2	
Claysville.....	Maximum... 38	29	47	50	35	30	36	46	35	35	36	42	60	58	26	24	30	23	33	41	42	36	48	47	46	33	48	43	34	27	38	38.6	
	Minimum... 25	19	17	26	22	16	13	32	30	31	20	40	24	16	27	10	-9	-4	27	34	32	32	34	29	26	20	27	22	22	22	22	22.4	
Clearfield.....	Maximum... 34	33	34	39	31	29	29	43	34	36	38	40	41	41	34	30	36	29	27	37	39	40	39	35	35	41	36	35	26	33	35.1		
	Minimum... 26	11	15	11	13	11	-6	17	17	27	26	21	33	25	14	0	4	-6	-7	19	34	32	19	25	25	24	7	18	24	16	15	16.6	
Coatesville.....	Maximum... 45	36	32	39	18	23	28	38	38	37	39	39	39	43	30	22	32	23	34	45	40	32	38	42	33	33	35	36	30	37	34.3		
	Minimum... 30	18	11	15	10	12	1	25	15	23	20	26	34	28	18	9	13	4	12	33	31	15	18	32	25	14	19	26	19	16	18.6		
Corry.....	Maximum... 34	25	36	36	22	23	31	39	32	32	31	40	48	48	21	19	21	17	26	38	39	36	41	41	40	27	38	34	33	24	34	32.5	
	Minimum... 21	11	11	8	7	7	-6	29	23	25	26	18	35	19	14	4	8	-8	-4	18	31	29	15	28	22	8	2	26	19	15	19	15.5	
Emporium.....	Maximum... 38	25	34	35	23	25	28	47	34	33	36	40	39	43	25	21	28	15	20	38	40	38	35	37	39	31	35	32	26	38	32.6		
	Minimum... 25	12	12	10	8	3	-13	27	24	26	30	16	35	20	10	5	4	-11	-9	26	34	29	13	30	28	15	-3	28	25	20	18	15.7	
Erie.....	Maximum... 37	23	38	35	24	21	39	41	32	35	34	42	56	33	24	22	24	18	30	40	39	35	41	43	35	29	38	38	30	26	33	33.4	
	Minimum... 22	16	20	10	11	12	8	31	29	28	25	33	23	11	9	11	11	6	28	32	29	26	33	25	23	20	30	25	20	25	21	21.3	
Franklin.....	Maximum... 37	28	44	34	27	24	42	45	30	36	37	42	47	26	23	24	25	21	36	41	38	41	40	44	29	32	40	35	28	27	34	34.1	
	Minimum... 31	15	15	24	10	14	-2	5	24	24	27	15	21	23	12	5	7	-5	-5	-2	34	30	20	22	27	26	9	14	24	16	15.8		
Freeland.....	Maximum... 34	26	28	24	12	14	24	33	34	31	34	32	38	38	22	12	25	14	15	30	36	32	29	34	34	25	28	34	32	24	38	27.9	
	Minimum... 24	6	3	4	-4	0	0	14	14	14	24	14	18	20	0	8	-6	-5	8	28	23	10	16	23	14	8	16	16	15	14	11.5		
Gettysburg.....	Maximum... 50	41	33	40	34	31	31	37	41	42	41	46	41	47	38	31	38	35	27	35	47	41	50	36	40	44	42	34	47	36	33	39.0	
	Minimum... 27	22	17	28	15	16	8	22	25	29	28	23	34	32	21	10	17	6	4	20	30	32	18	22	33	30	18	24	31	20	21	22.0	
Greensburg.....	Maximum... 38	28	43	43	36	27	35	45	36	36	34	47	60	58	26	23	30	18	28	40	41	37	44	47	46	40	45	38	34	24	37	37.5	
	Minimum... 28	18	20	26	19	18	9	36	31	31	31	24	41	26	19	8	18	-3	1	24	34	33	33	32	31	26	20	32	24	18	22	28.5	
Grove City.....	Maximum... 37	28	37	37	26	27	32	41	36	32	33	37	51	51	23	21	21	15	22	38	37	35	35	41	41	28	35	36	33	27	34	33.1	
	Minimum... 26	15	19	18	11	16	-2	30	26	27	28	15	34	20	13	4	15	-9	-5	17	31	30	25	32	24	21	11	30	21	12	18	18.5	
Hamburg.....	Maximum... 46	43	27	36	26	20	26	37	38	37	36	39	37	42	35	26	32	20	22	31	43	41	37	35	41	34	34	35	34	34	33	34.1	
	Minimum... 32	19	14	20	9	8	15	23	19	26	23	24	30	33	20	11	10	5	6	11	26	33	15	17	28	22	17	21	29	22	15	19.5	
Harrisburg.....	Maximum... 45	29	36	38	28	26	30	42	39	40	40	42	40	42	28	24	36	19	26	34	44	42	34	36	41	36	35	34	38	32	35	35.2	
	Minimum... 29	21	19	16	12	18	12	30	26	29	32	30	35	28	24	14	11	8	11	24	31	31	23	26	31	28	23	27	26	22	23	23.2	
Hawley.....	Maximum... 37	38	30	29	13	17	30	35	35	31	36	39	36	41	34	23	23	25	20	32	38	39	33	33	35	32	34	32	34	32	35	31.6	
	Minimum... 31	15	8	13	2	9	-12	23	18	22	24	16	18	33	9	6	-1	-6	-7	4	28	28	5	3	30	21	-10	1	31	17	6	12.4	
Huntingdon.....	Maximum... 41	33	32	37	34	28	27	44	43	37	39	42	41	40	28	25	34	29	23	28	46	40	37	34	37	35	38	32	35	28	33	34.8	
	Minimum... 28	19	13	29	11	16	-10	26	22	29	31	18	33	27	17	9	20	-2	7	15	28	32	16	29	32	28	11	19	26	19	13	19.3	
Indiana.....	Maximum... 35	26	40	40	32	30	38	42	35	36	33	43	54	51	25	23	26	20	28	37	39	36	38	41	....	44	40	36	34	24	38	35.6 ⁴
	Minimum... 40	30	45	45	30	27	32	46	35	35	36	42	44	47	25	22	30	18	28	42	43	37	36	44	44	34	38	37	35	25	39	35.8	
Johnstown.....	Maximum... 26	19	21	23	15	15	4	32	32	31	31	25	38	25	20	8	18	2	1	26	37	33	31	34	34	24	18	28	25	18	23	20.0	
Lancaster.....	Maximum... 50	49	46	43	40	35	35	39	40	42	45	42	45	45	41	37	40	40	29	38	47	48	48	43	44	47	42	39	42	41	42	42.2	
	Minimum... 30	20	15	28	11	10	4	25	22	28	23	22	32	34	21	13	15	6	5	16	28	29	16	17									



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

PENNSYLVANIA SECTION,
GEORGE S. BLISS, Meteorologist.
PHILADELPHIA, PA.

VOL. XXXI.

ANNUAL SUMMARY, 1926.

No. 13.

GENERAL SUMMARY.

The year 1926 was marked by unusual weather extremes in Pennsylvania, and taken as a whole it was far from agreeable. It was the most unfavorable season for agriculture that has occurred for many years, and still it was the best for horticulture during the last decade. Some of the marked features of the year follow: In January there was a sudden thaw that broke the ice in most of the streams and caused jams and flooding in many places. A serious condition developed in the upper reaches of the Allegheny river with an ice jam for something over 35 miles. February brought heavy snows and the total for the month averaged 23.3 inches for the State. The main highways were blocked a large part of the time. In March there were numerous ice jams in the streams and one of the worst ever known in the State developed in the Allegheny river, starting about 15 miles below Franklin. Before the jam broke it had backed up the stream for a distance of 40 miles, and the ice and floods caused damage estimated at upwards of \$100,000 in Franklin and upwards of \$500,000 in Oil City. April, May, and June were exceedingly cold and dry, and crop growth was very slow. In July the drought was broken by excessive rains in the central and southeastern counties, while the drought continued and attained great severity in the southwestern counties. The rainfall was excessive in nearly all parts of the State during August, September, October, and November. Much grain was damaged in the fields, being too wet to thresh or haul into barns. A large part of the hay crop was lost in the curing process. Outdoor work of all kinds was delayed by the frequent rains. However, while the losses were heavy there were also some gains due to the wet weather. Pastures that had been stunted by the drought were revived and brought to an excellent condition. Corn generally improved. Potatoes took on a new growth and became very promising. The early crop was good, but the wet soil prevented the digging of the late crop and the losses were heavy. The apple crop was said to be finest that has been raised in Pennsylvania for seventeen years. Yields were heavy and the quality was good to excellent. The peach crop was fairly heavy, but excessive rains lowered the grade of the fruit by softening it to such an extent that it did not keep and ship well. The temperature deficiency in the spring was due more to steady cold weather than to severe periods or late freezes. Fruit was generally slow in development and was not damaged by frosts. The wheat crop was fairly good, it being nearly developed before the spring drought became serious enough to affect it. It was harvested in good condition in the western counties where the July rains were generally light, but was more or less damaged in the shock in the central and eastern counties. The oats crop was damaged in the shock to a greater extent than the wheat crop, while buckwheat was almost a total loss in some sections. The Bureau of Agricultural Economics estimated that the unfavorable season caused a decline for all crops amounting to \$37,000,000 in Pennsylvania. December was a cold and rather severe winter month. There were heavy general snows early in the month, and the temperature for the first three weeks averaged about six degrees below the normal. This severe weather practically stopped corn husking, and the greater portion of the crop that could not be husked in November on account of its wet condition was left in the shock to be husked out by piece-meal during the winter season.

COMPARATIVE ANNUAL DATA FOR THE STATE

Year	Temperature		Precipitation		Year	Temperature		Precipitation	
	Highest	Lowest	Greatest total	Least total		Highest	Lowest	Greatest total	Least total
1888.....	100	-31	.....	.....	1909.....	100	-19	48.79	27.91
1889.....	96	-27	.....	.....	1910.....	99	-22	51.45	31.08
1890.....	101	-18	.....	.....	1911.....	105	-18	67.61	29.25
1891.....	100	-14	64.00	32.21	1912.....	100	-35	60.95	33.08
1892.....	103	-28	54.63	32.07	1913.....	102	-9	56.06	32.48
1893.....	102	-25	58.56	30.62	1914.....	101	-28	54.33	28.83
1894.....	103	-28	57.43	28.17	1915.....	99	-26	61.96	33.40
1895.....	104	-26	40.80	21.17	1916.....	103	-31	58.50	31.05
1896.....	101	-21	53.52	32.29	1917.....	105	-29	62.68	23.56
1897.....	103	-25	55.16	19.83	1918.....	108	-34	60.60	29.97
1898.....	107	-16	56.95	34.07	1919.....	104	-23	58.30	31.55
1899.....	101	-39	51.13	28.36	1920.....	99	-15	58.70	26.27
1900.....	107	-28	55.68	25.73	1921.....	104	-15	62.91	30.08
1901.....	107	-22	56.83	29.81	1922.....	100	-19	50.96	26.27
1902.....	100	-24	65.05	29.79	1923.....	103	-20	52.84	23.75
1903.....	99	-17	57.16	35.90	1924.....	102	-25	55.80	30.21
1904.....	99	-42	56.72	31.05	1925.....	104	-29	55.47	25.95
1905.....	99	-25	59.38	33.53	1926.....	105	-20	57.03	30.06
1906.....	99	-21	61.56	32.55					
1907.....	98	-23	64.05	31.79					
1908.....	104	-29	50.26	26.72					

MONTHLY STATE DATA FOR 1926

Month	Temperature					Precipitation				
	Mean	Highest sta. mean	Lowest sta. mean	Highest	Lowest	Average	Greatest	Least	Greatest in 24 hrs.	Average snow
January.....	27.8	34.3	21.4	66	-19	2.80	4.85	1.12	1.90	10.5
February.....	28.7	34.5	21.0	65	-13	4.06	7.29	1.34	2.70	23.3
March.....	33.1	39.0	24.0	79	-16	1.91	3.94	0.58	1.36	4.0
April.....	44.9	50.4	37.2	84	9	2.03	4.35	0.85	1.32	0.9
May.....	58.8	65.0	49.7	95	18	1.78	5.52	0.62	4.30	0
June.....	64.1	68.4	56.2	94	23	3.63	6.56	1.20	3.34	0
July.....	71.8	75.9	62.3	105	35	3.82	10.63	1.14	4.99	0
August.....	71.9	75.9	64.2	103	32	5.69	10.04	2.95	4.49	0
September.....	64.2	68.4	56.5	99	26	5.81	13.90	2.23	4.25	0
October.....	51.9	57.0	45.2	90	16	4.51	7.98	2.56	2.96	0.2
November.....	40.4	46.4	33.8	79	-1	4.49	9.84	2.00	4.86	0.9
December.....	27.3	32.8	19.7	62	-20	2.58	4.61	0.90	2.50	10.0
Year.....	48.7	75.9	19.7	105	-20	43.11	13.90	0.58	4.99	49.8

KILLING FROSTS OR FREEZING TEMPERATURE

Stations	Last in spring	First in autumn	Stations	Last in spring	First in autumn
Allentown.....	Apr. 27	Oct. 29	Lawrenceville.....	June 4	Oct. 10
Altoona.....	May 5	do. 9	Lebanon.....	Apr. 27	do. 16
Beaver Dam.....	do. 4	do. 26	Lewisburg.....	May 5	do. 22
Bethlehem.....	Apr. 20	do. 22	Lycippus.....	do. 4	do. 25
Bradford.....	June 4	do. 16	Lykens.....	June 4	do. 10
Brookville.....	do. 4	do. 8	Mauch Chunk.....	May 24	do. 8
Bustleton.....	Apr. 27	do. 18	Millintown.....	do. 5	do. 22
Carlisle.....	do. 28	do. 16	Montrose.....	June 4	do. 8
Catawissa.....	May 24	do. 16	Mount Pocono.....	.....	Sept. 14
Center Hall.....	do. 11	Sept. 14	Muncy Valley.....	June 4	Oct. 8
Chambersburg.....	do. 5	Oct. 22	Narberth.....	Apr. 27	do. 26
Claysville.....	do. 11	do. 8	Neshaminy Falls.....	do. 27	do. 16
Clearfield.....	do. 25	do. 9	New Castle.....	May 14	do. 9
Coatesville.....	do. 5	do. 10	Newell.....	do. 4	do. 26
Colebrook.....	do. 24	do. 16	Palmerton.....	do. 5	do. 12
Corry.....	June 4	do. 9	Philadelphia.....	Apr. 20	do. 27
Derry.....	May 11	do. 9	Phoenixville.....	May 25	do. 26
Ebensburg.....	do. 11	do. 9	Pittsburgh.....	do. 4	do. 26
Elk Lick.....	do. 11	do. 8	Quakertown.....	do. 24	do. 8
Emporium.....	.....	do. 9	Reading.....	Apr. 20	do. 26
Ephrata.....	May 24	do. 22	Ridgway.....	June 4	.....
Erie.....	May 4	do. 25	Saegertown.....	do. 4	Oct. 9
Franklin.....	June 3	do. 9	Scranton.....	May 4	do. 16
Freeland.....	May 24	do. 9	Selinsgrove.....	do. 24	do. 22
George School.....	Apr. 27	do. 16	Sharon.....	Apr. 20	do. 27
Gettysburg.....	do. 27	do. 22	Shawmont.....	do. 20	do. 26
Gordon.....	June 4	do. 8	Somerset.....	.....	do. 8
Greensburg.....	May 4	do. 9	State College.....	May 5	do. 16
Greenville.....	June 4	do. 9	Towanda.....	do. 24	do. 10
Grove City.....	May 13	do. 9	Uniontown.....	Apr. 27	do. 26
Hamburg.....	.....	do. 16	Unity Reservoir.....	May 5	do. 9
Hanover.....	May 5	do. 26	Vandergrift.....	do. 5	do. 26
Harrisburg.....	Apr. 20	do. 26	Warren.....	June 4	do. 23
Hawley.....	do. 21	do. 8	Washington.....	May 11	do. 9
Holtwood.....	do. 20	do. 27	Wellsboro.....	June 4	do. 8
Huntingdon.....	May 24	do. 22	West Bingham.....	do. 20	Aug. 31
Indiana.....	do. 12	.....	West Chester.....	Apr. 27	Oct. 22
Johnstown.....	do. 4	Oct. 22	Williamsport.....	May 5	do. 22
Lancaster.....	do. 5	do. 16	York.....	do. 5	do. 9

Climatological Data for the Year 1926

STATION	Counties	Elevation, feet	Temperature (degrees Fahrenheit)						Precipitation (inches)						Number days with .01 or more	Sky			Prevailing direction of wind	
			Length of record, years	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total for the year	Greatest monthly	Month	Least monthly	Month		Total snowfall (unmelted)	Number clear days	Number partly cloudy days		Number cloudy days
Atlantic Drainage.																				
Allentown.....	Lehigh.....	254	14	.....	101	July 22	2	Jan. 29	15	46.43	7.04	July	1.81	Mar.	35.9	142	181	136	48	nw
Altoona.....	Blair.....	1,615	30	47.4	97	do. 22	-8	do. 29	39	41.45	6.77	Aug.	1.41	May	90.0	157	145	97	123	w.
Bethlehem.....	Northampton.....	295	23	.....	98	do. 21†	1	do. 29	40	41.95	6.29	Oct.	1.65	Dec.	26.6	106	204	52	109	nw.
Carlisle.....	Cumberland.....	467	60	51.7	103	do. 22	-6	do. 13†	38	42.34	6.18	Nov.	1.51	Apr.	54.0	124	194	60	111	nw.
Catawissa.....	Columbia.....	520	30	48.7	104	do. 22	-9	Dec. 7	30	37.47	5.61	do.	1.42	Dec.	62.4	111	193	67	105	.....
Chambersburg.....	Franklin.....	580	27	50.5	104	do. 22	-2	Jan. 11	26	36.50	5.12	do.	0.91	May	37.3	127	126	94	145	sw.
Clearfield.....	Clearfield.....	1,120	16	48.4	100	do. 21	-10	do. 28	17	40.78	8.19	Sept.	1.16	do.	76.2	132	146	115	104	w.
Coatesville.....	Chester.....	380	39	49.2	98	do. 22	1	do. 29†	39	47.19	6.29	July	1.89	Apr.	36.8	125	119	151	95	nw
Colebrook.....	Lebanon.....	560	11	48.6	98	do. 22	1	do. 13	17	48.42	7.71	Aug.	1.73	Mar.	34.1	135	164	52	149	w.
Emporium.....	Cameron.....	1,050	39	.....	93	do. 21	-13	Dec. 7	39	44.74	7.40	do.	1.53	May	56.7	.....	.....	.....	.....	w.
Ephrata.....	Lancaster.....	380	26	50.5	98	do. 22	-4	Jan. 11†	26	47.78	8.12	do.	1.68	Mar.	25.2	128	142	71	152	w.
Freeland.....	Luzerne.....	1,970	7	42.8	97	do. 22	-10	do. 29	11	57.03	7.65	Nov.	1.39	May	99.9	176	107	104	154	nw.
George School.....	Bucks.....	190	20	50.6	100	do. 22	-1	Dec. 7	20	44.80	7.51	Aug.	1.63	Apr.	36.3	122	182	83	100	w.
Gettysburg.....	Adams.....	600	51	52.1	105	July 21	0	Jan. 11†	53	41.44	6.71	Nov.	1.63	May	35.0	138	119	127	119	w.
Gordon.....	Schuylkill.....	840	23	46.8	96	do. 21†	-10	Dec. 7	23	43.63	8.59	do.	1.31	Dec.	63.0	128	180	57	128	e.
Gouldsboro.....	Wayne.....	1,875	3	42.5	94	do. 22	-10	Jan. 14†	12	46.43	8.11	do.	1.49	do.	69.6	131	153	75	137	w.
Hamburg.....	Berks.....	535	33	.....	99	do. 22	-1	do. 13	33	.....	.....	.....	.....	.....	35.0	.....	.....	.....	.....	w.
Hanover.....	York.....	600	23	52.3	102	do. 21†	2	do. 29	23	37.70	5.05	Aug.	1.54	May	.....	133	188	80	97	s.
Harrisburg.....	Dauphin.....	361	39	56.0	101	do. 22	5	do. 29	57	42.46	5.12	Sept.	1.63	do.	34.6	127	90	108	167	nw.
Hawley.....	Wayne.....	900	8	45.5	100	do. 22	-12	Dec. 7	8	38.26	5.67	Aug.	0.76	Mar.	64.6	104	155	88	122	w.
Holtwood.....	Lancaster.....	200	7	51.3	99	do. 21†	4	Jan. 13	11	37.61	5.30	Nov.	1.55	do.	23.9	123	146	69	150	.....
Huntingdon.....	Huntingdon.....	650	39	49.6	104	do. 22	-10	Dec. 7	39	.....	.....	.....	.....	.....	.....	113	99	153	153	w.
Hyndman.....	Bedford.....	977	14	50.9	103	do. 22	-10	Jan. 29	14	37.19	6.78	Sept.	0.95	May	37.0	127	86	89	190	.....
Lancaster.....	Lancaster.....	255	21	51.2	102	do. 22	-3	do. 13	39	44.23	7.62	Nov.	1.54	Mar.	30.0	101	209	93	63	w.
Lawrenceville.....	Tioga.....	1,000	29	45.8	96	do. 21	-17	do. 7	29	30.96	5.71	Aug.	0.58	do.	67.5	90	142	71	152	.....
Lebanon.....	Lebanon.....	469	38	49.6	102	do. 22	3	do. 29†	86	47.23	7.89	July	1.39	May	27.5	131	176	96	93	w.
Lewisburg.....	Union.....	450	51	49.1	102	July 21†	-12	Dec. 7	52	44.01	7.24	Nov.	1.22	May	68.5	134	145	81	139	w.
Lykens.....	Dauphin.....	680	12	48.8	101	do. 21†	-7	Jan. 13	12	45.87	8.69	do.	0.86	do.	38.5	130	192	74	99	nw.
Mauch Chunk.....	Carbon.....	600	37	48.5	102	do. 22	0	do. 13	37	51.26	7.93	Aug.	2.07	do.	42.4	125	159	79	127	w.
Mifflintown.....	Juniata.....	445	23	49.8	102	do. 22	-4	Dec. 7	23	38.93	5.44	Nov.	1.40	do.	46.1	128	154	51	160	nw.
Montrose.....	Susquehanna.....	1,658	24	44.2	93	do. 22	-11	Jan. 13	23	40.90	7.84	Aug.	1.40	Dec.	77.0	91	104	120	141	s.
Muncy Valley.....	Sullivan.....	1,045	15	45.0	94	do. 21†	-14	do. 29	15	52.71	10.04	do.	0.99	May	57.5	105	154	115	96	w.
Narberth.....	Montgomery.....	300	7	50.8	99	do. 22	4	do. 29	8	51.48	8.33	July	1.48	Apr.	26.0	141	136	88	141	sw.
Neshaminy Falls.....	Bucks.....	60	12	49.0	102	do. 22	-3	Dec. 7	12	47.82	7.67	Aug.	1.93	do.	23.5	145	189	79	97	w.
Palmerton.....	Carbon.....	398	8	47.9	100	do. 21†	-3	do. 7	10	.....	.....	.....	.....	.....	29.2	.....	165	118	82	ne.
Philadelphia.....	Philadelphia.....	114	55	53.6	100	do. 22	7	Jan. 29	55	44.91	8.40	July	1.81	Apr.	22.1	128	110	116	139	sw.
Philadelphia-Gtn.....	Philadelphia.....	113	2	53.4	101	do. 22	7	do. 29	2	44.87	8.00	do.	1.73	do.	23.8	120	139	107	119	.....
Phila. Navy Yard.....	Philadelphia.....	12	11	52.4	100	do. 22	6	do. 29	11	47.12	10.49	do.	1.97	do.	24.4	122	.....	.....	.....	.....
Phila. Pt. Breeze.....	Philadelphia.....	90	2	53.1	102	do. 22	7	do. 29	2	46.97	10.63	do.	1.65	do.	.....	128	98	149	118	w.
Phoenixville.....	Chester.....	100	16	50.6	104	July 22†	3	Jan. 29	16	43.84	5.44	July	1.72	Apr.	30.4	99	209	111	45	w.
Quakertown.....	Bucks.....	496	40	48.6	100	do. 22	-3	Dec. 7	42	45.21	6.22	do.	2.23	Mar.	35.7	144	147	116	102	nw
Reading.....	Berks.....	325	49	51.4	102	do. 21	6	Jan. 29	57	42.89	7.05	Aug.	1.80	do.	33.5	127	125	107	133	nw.
Scranton.....	Lackawanna.....	805	31	47.2	98	do. 22	-3	do. 29	32	37.48	6.60	do.	1.66	May	51.2	140	55	101	209	nw
Selinsgrove.....	Snyder.....	455	37	49.1	100	do. 22	-7	Jan. 13	38	39.25	6.91	Nov.	0.88	do.	48.5	125	125	124	116	sw.
Shawmont.....	Philadelphia.....	51	10	51.7	99	do. 22†	6	do. 29	31	41.09	5.95	July	1.08	Apr.	18.5	107	138	105	122	nw.
State College.....	Center.....	1,217	39	48.1	97	do. 22	-5	do. 29	42	41.55	5.79	Sept.	0.96	May	57.7	144	86	150	129	sw.
Towanda.....	Bradford.....	754	32	45.5	97	do. 22	-13	Feb. 12	32	37.85	5.30	Aug.	0.85	do.	66.7	132	106	99	160	e.
Wellsboro.....	Tioga.....	1,419	47	44.0	95	do. 21	-16	Dec. 7	62	30.06	4.84	do.	0.62	do.	75.0	95	215	47	103	sw.
West Chester.....	Chester.....	455	72	50.4	100	do. 22	2	Jan. 29	94	42.90	6.70	July	1.37	Apr.	23.3	130	171	106	88	w.
Williamsport.....	Lycoming.....	521	37	49.1	100	do. 21†	-5	Dec. 7	40	44.26	7.52	Nov.	1.41	Mar.	55.0	128	175	46	144	nw.
York.....	York.....	400	27	51.1	102	do. 21	-5	Jan. 13†	39	37.07	5.04	do.	1.34	do.	27.0	122	150	125	90	e.
Ohio Drainage.																				
Beaver Dam.....	Beaver.....	700	13	50.9	100	July 21	-8	Jan. 29	34	42.60	9.48	Sept.	1.18	Mar.	.....	168	84	90	191	sw.
Bradford.....	McKean.....	1,427	10	45.7	95	do. 21	-12	Dec. 18	12	45.48	6.39	do.	1.52	May	74.4	177	.....	.....	.....	sw.
Brookville.....	Jefferson.....	1,173	16	43.8	96	do. 21	-19	Jan. 29	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Claysville.....	Washington.....	1,150	23	50.9	101	Aug. 11	-9	do. 29†	23	42.60	7.97	Sept.	1.56	Apr.	46.3	165	165	54	146	s.
Corry.....	Erie.....	1,430	15	45.1	92	July 20	-9	do. 29	15	50.62	7.97	do.	1.09	May	146.8	202	114	107	144	.....
Derry.....	Westmoreland.....	1,172	30	50.3	98	do. 21	-7	do. 29	30	45.37	9.00	do.	1.30	do.	37.9	133	162	94	109	w.
Ebensburg.....	Cambria.....	2,000	9	46.0	96	do. 21†	-10	do. 29	9	.....	.....	.....	.....	.....	.....	132	104	129	71	w.
Elk Lick.....	Somerset.....	2,680	9	.....	92	Aug. 11	-11	do. 29	9	50.77	7.89	Aug.	1.37	May	96.5	132	157			

Monthly and Annual Precipitation for the Year 1926, with Departures from the Normal

		January		February		March		April		May		June		July		August		September		October		November		December		Annual	
STATIONS		Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
DELAWARE BASIN.	Allentown.....	2.29	-1.36	4.54	+1.53	1.81	-2.17	2.26	-1.58	2.31	-1.31	3.41	-0.03	7.04	+1.99	5.85	+1.50	4.23	+0.88	4.48	+1.07	5.46	+3.06	2.75	-1.10	46.43	+2.48
	Bethlehem.....	1.97	-1.61	2.47	-1.02	1.72	-1.92	1.84	-1.31	2.22	-1.50	3.44	-0.73	5.39	+0.83	5.63	+1.31	4.54	+1.15	6.29	+3.06	4.79	+1.68	1.65	-1.85	41.95	-1.91
	Bustleton.....	2.90	1.98	1.65	3.65	2.73	6.73	5.45	5.05	3.82	3.55
	Coatesville.....	3.76	-0.21	4.44	+0.34	1.95	-2.41	1.89	-1.74	2.63	-1.40	4.30	+0.26	6.29	+1.27	4.62	+0.19	4.50	+0.60	4.59	+1.07	5.47	+2.28	2.75	-1.47	47.19	-1.22
	Conshohocken.....	3.34	4.20	1.97	1.65	2.71	2.98	5.47	4.49	4.52	4.99	5.01	3.13	44.46
	Doylestown.....	2.72	-0.94	3.56	-0.30	1.84	-2.23	1.79	-2.19	4.05	+0.04	3.36	-0.64	5.57	+0.71	5.83	+0.30	3.64	-0.31	4.29	+0.31	4.28	+0.98	2.86	-1.16	43.79	-5.43
	Freeland.....	3.03	7.29	3.34	3.86	1.39	6.04	2.81	7.13	5.93	5.79	7.65	2.77	57.03
	George School.....	2.63	-0.44	3.81	+0.71	2.22	-1.24	1.53	-2.07	2.73	-0.88	3.73	+0.50	5.34	+0.96	7.51	+2.91	4.24	+1.22	4.38	+1.13	3.57	+0.86	3.11	-0.70	44.80	+2.96
	Gouldsboro.....	2.45	-0.79	4.30	+0.57	2.60	-0.66	2.48	-2.22	1.58	-3.12	5.75	+1.02	1.88	-3.79	6.37	+1.19	4.31	+0.99	5.11	+1.66	8.11	+5.28	1.49	-1.62	46.43	-0.84
	Graterford.....	3.30	3.90	2.24	2.01	3.05	3.17	6.95	4.48	2.97	3.75	4.10	2.55	42.47
	Hamburg.....	3.43	-0.33	4.66	+1.27	1.58	-2.56	2.93	-1.32	4.04	-0.18	6.50	+1.79	5.10	-0.26	3.74	-0.46	4.85	+0.79	4.26	+1.40	1.01	-2.84
	Hamlin.....	2.37	3.66	2.24	7.64	5.04	4.39	5.63	2.73
	Hawley.....	1.86	5.52	0.76	1.79	2.06	3.86	2.04	5.67	3.91	3.73	4.34	2.72	38.26
	Lansford.....	1.70	-1.68	3.92	+1.01	1.42	-2.09	2.30	-1.43	1.03	-2.42	4.05	-0.18	4.21	-0.45	5.68	+0.92	5.03	+1.21	4.61	+0.27	7.38	+5.07	1.77	-1.91	43.10	-1.68
	Mauch Chunk.....	3.43	-0.35	6.06	+2.19	2.20	-2.30	2.46	-1.46	2.07	-1.94	3.98	-0.32	3.72	-1.38	7.93	+2.96	6.16	+2.29	5.16	+1.40	5.62	+2.29	2.47	-1.77	51.26	+1.61
Mount Pocono.....	.....	.....	.....	.....	2.38	-1.38	.....	.....	.....	.....	4.00	-1.16	5.67	+1.33	6.57	+1.68	6.29	+1.27	.....	.....	.....	.....	.....	.....	.....	.....
Narberth.....	3.60	.....	3.67	.....	2.83	.....	1.48	.....	2.76	.....	4.21	.....	8.33	.....	7.02	.....	5.02	.....	4.26	.....	4.93	.....	3.37	.....	51.48	.....
Neshaminy Falls.....	2.10	.....	3.41	.....	2.47	.....	1.93	.....	4.00	.....	3.38	.....	7.08	.....	7.67	.....	4.47	.....	2.97	.....	5.19	.....	3.15	.....	47.82	.....
Palmerton.....	.....	.....	1.53	.....	1.39	.....	1.72	.....	2.02	.....	2.11	.....	4.11	.....	5.87	.....	4.23	.....	5.06	.....	5.32	.....	1.53	.....	.....	.....
Paupack.....	.....	.....	.....	.....	.....	.....	2.03	.....	1.68	.....	4.23	.....	2.11	.....	8.33	.....	4.57	.....	4.00	.....	6.34	.....	2.49	.....	.....	.....
Philadelphia.....	2.85	-0.56	3.18	-0.20	1.96	-1.49	1.81	-1.10	2.31	-0.89	2.81	-0.49	8.40	+4.07	5.99	+1.38	4.88	+1.50	4.11	+1.01	3.07	+0.01	3.54	+0.50	44.91	+3.74	
Philadelphia Gtn.....	2.81	.....	3.49	.....	2.25	.....	1.73	.....	2.47	.....	2.38	.....	8.00	.....	6.14	.....	5.05	.....	3.70	.....	3.79	.....	3.06	.....	44.87	.....
Phila. Navy Yard.....	2.45	.....	4.26	.....	2.01	.....	1.97	.....	2.14	.....	3.94	.....	10.49	.....	4.77	.....	4.23	.....	2.56	.....	4.23	.....	4.07	.....	47.12	.....
Phila-Point Breeze.....	2.80	.....	3.42	.....	2.41	.....	1.65	.....	2.38	.....	2.40	.....	10.63	.....	5.60	.....	4.75	.....	3.84	.....	3.55	.....	3.54	.....	46.97	.....
Phoenixville.....	3.55	-0.40	4.18	+0.97	2.06	-1.59	1.72	-1.77	3.79	-0.17	3.55	-0.11	5.44	+0.40	3.88	-0.64	3.71	+0.63	4.83	+2.03	4.94	+2.22	1.19	-1.03	48.84	+0.54	
Pleasant Mount.....	3.57	.....	4.63	.....	3.00	.....	3.33	.....	1.43	.....	3.26	.....	5.59	.....	6.60	.....	4.87	.....	5.30	.....	5.96	.....	3.08	.....	50.62	.....
Pottstown.....	3.28	-0.15	4.29	+0.76	1.79	-2.08	1.66	-1.55	2.53	-1.84	3.29	-0.52	4.97	-0.47	5.35	+1.42	4.01	+0.68	5.41	+2.35	4.06	+0.84	2.67	-1.00	43.34	-1.56	
Pottsville.....	3.61	-0.32	6.74	+3.19	2.34	-1.77	2.56	-1.10	1.80	-2.56	3.05	-1.23	3.75	-1.29	5.17	-0.09	6.17	+2.27	4.96	+0.93	6.86	+3.57	2.32	-1.72	49.33	-0.12	
Promised Land.....	.....	.....	.....	.....	.....	.....	.....	.....	0.77	.....	4.31	.....	1.42	.....	6.04	.....	3.80	.....	4.85	.....	6.76	.....	2.68	.....	.....	.....
Quakertown.....	2.88	-0.61	4.42	+0.66	2.23	-1.48	2.27	-0.96	2.27	-1.75	2.60	-1.06	6.22	+1.40	6.21	+1.92	3.83	+0.17	4.59	+1.22	4.73	+1.57	2.96	-0.58	45.21	.....
Reading.....	3.67	+0.15	3.82	+0.32	1.80	-1.74	1.96	-1.26	2.07	-1.30	3.67	0.00	5.73	+1.51	7.05	+2.57	4.07	+0.42	3.69	+0.43	3.26	+0.14	2.10	-1.22	42.89	+0.02	
Shawmont.....	2.63	-0.62	3.17	-0.01	2.14	-1.53	1.08	-2.09	2.32	-1.14	3.86	+0.39	5.95	+1.36	4.62	-0.51	4.60	+1.37	3.57	+0.23	4.38	+1.50	2.77	-1.12	41.09	-2.17	
Snow Hill.....	3.34	.....	6.42	.....	2.28	.....	2.51	.....	1.02	.....	2.63	.....	2.21	.....	7.05	.....	5.46	.....	6.06	.....	6.28	.....	3.53	.....	48.79	.....
South Sterling.....	.....	.....	.....	.....	.....	.....	2.24	.....	1.01	.....	3.58	.....	1.14	.....	5.56	.....	4.12	.....	4.67	.....	9.84	.....	2.89	.....	.....	.....
West Chester.....	3.02	-0.82	3.42	-0.48	1.82	-2.25	1.37	-2.41	2.27	-2.18	3.77	-0.42	6.70	+1.87	4.05	-0.63	3.75	-0.17	5.68	+1.94	4.45	+0.82	2.60	-1.49	42.90	-6.22	
ALTOONA BASIN.																											
Altoona.....	2.64	+0.14	3.04	+0.93	2.59	-0.11	1.73	-1.04	1.41	-2.61	2.92	-1.00	3.80	+0.53	6.77	+3.38	6.18	+3.40	3.87	+1.38	4.03	+2.12	2.47	+0.12	41.45	+7.14	
Ansonia.....	1.32	-1.09	3.27	+1.34	0.88	-1.39	2.10	-1.54	0.89	-2.99	3.68	-0.47	2.86	-0.86	4.84	+1.39	3.45	+0.24	3.25	+0.04	3.93	+2.16	1.31	-0.57	31.28	-3.64	
Baker's Summit.....	3.41	.....	3.84	.....	2.02	.....	1.78	.....	1.01	.....	2.87	.....	3.73	.....	7.58	.....	4.39	.....	3.25	.....	3.73	.....	3.18	.....	40.79	.....
Blosserville.....	4.00	.....	5.34	.....	1.77	.....	1.60	.....	1.35	.....	2.38	.....	3.21	.....	5.96	.....	5.89	.....	4.01	.....	6.38	.....	1.95	.....	43.84	.....
Carlisle.....	3.41	+0.29	5.80	+2.83	1.67	-1.87	1.51	-1.82	1.67	-2.16	2.50	-1.34	3.55	-0.31	4.71	-0.25	4.57	+0.95	3.38	+0.12	6.18	+2.99	3.39	+0.38	42.34	-0.19	
Catawissa.....	2.94	-0.38	5.07	+2.39	1.62	-1.43	1.91	-1.50	1.81	-1.77	2.07	-1.82	2.03	-1.74	4.91	+0.79	4.28	+0.88	3.80	+0.70	5.61	+2.90	1.42	-1.58	37.47	-2.56	
Center Hall.....	2.91	+0.36	4.66	+2.36	3.36	+0.11	1.52	-1.62	0.65	-3.35	5.77	+1.															

Monthly and Annual Precipitation for the Year 1926, with Departures from the Normal.—Continued

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation.	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	
Derry.....	3.36	-0.55	4.28	+1.29	2.33	-1.73	1.82	-1.90	1.30	-2.15	3.32	-1.53	1.47	-3.36	6.70	+2.53	9.00	+6.19	5.39	+2.14	2.07	-0.50	4.33	+1.03	45.37	+1.46	
Donora.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ebensburg.....	.....	.....	6.87	.....	.....	.....	1.37	.....	1.88	.....	5.44	.....	2.83	.....	5.81	.....	7.53	.....	4.24	.....	2.39	.....	2.83	.....	.....	.....
Elk Lick.....	4.26	.....	5.52	.....	2.48	.....	2.08	.....	1.37	.....	5.44	.....	4.68	.....	7.89	.....	6.21	.....	4.32	.....	3.42	.....	3.10	.....	50.77	.....
Falls Creek.....	3.19	.....	3.79	.....	2.26	.....	2.07	.....	2.17	.....	4.90	.....	3.24	.....	6.99	.....	6.71	.....	5.02	.....	2.92	.....	2.55	.....	45.81	.....
Franklin.....	2.05	-1.57	3.89	+1.00	1.96	-1.49	3.17	+0.14	1.38	-2.11	4.62	-0.15	2.70	-1.78	6.19	+2.39	8.34	+4.85	5.84	+2.73	4.50	+1.49	3.27	-0.05	47.91	+5.45	
Freeport.....	1.96	-1.89	4.14	+0.98	1.91	-1.72	2.14	-1.18	2.72	-1.16	3.89	-0.37	3.95	-0.23	7.28	+3.56	10.75	+7.88	4.71	+1.82	3.64	+0.75	3.27	-0.11	50.36	+8.33	
Greensburg.....	3.63	-0.12	4.21	+1.35	2.03	-0.77	1.33	-2.32	1.78	-1.95	3.33	-0.77	2.45	-1.34	5.26	+0.89	7.07	+3.87	4.53	+1.40	2.34	+0.88	4.27	+1.12	42.23	+1.74	
Greenville.....	.....	.....	4.06	+1.47	1.68	-1.98	2.96	-0.31	1.38	-2.22	4.05	-0.16	3.10	-1.26	3.44	-0.32	10.70	+7.48	6.08	+2.43	3.89	+1.19	2.86	-0.13	.....	.....
Grove City.....	2.42	-1.10	2.39	+0.05	2.61	-0.42	1.36	-2.67	5.52	+1.72	5.85	+1.81	2.55	-1.67	5.44	+1.77	10.51	+7.43	5.59	+2.01	4.61	+2.47	1.90	-0.95	50.75	+10.45	
Herr's Island Dam.....	2.13	-0.92	4.27	+1.89	1.28	-2.22	1.89	-1.18	2.41	-0.41	1.59	-1.59	2.01	-1.46	3.70	+0.28	7.79	+5.43	4.39	+1.68	3.48	+1.71	3.09	+0.28	35.03	-0.51	
Indiana.....	3.30	-0.63	3.45	+0.52	2.28	-1.65	1.40	-2.62	3.37	-0.90	3.79	-1.04	5.83	+1.42	6.47	+1.98	.....	.....	.....	.....	2.40	-0.30	2.60	-0.89	.....	.....
Ingram.....	3.01	.....	3.99	.....	1.88	.....	1.58	.....	2.45	.....	1.64	.....	2.27	.....	4.74	.....	8.65	.....	4.82	.....	3.67	.....	3.20	.....	41.90	.....
Irwin.....	2.56	-0.48	3.73	+1.48	1.34	-2.20	1.05	-2.30	0.97	-2.27	1.49	-3.16	1.16	-3.00	4.71	+0.64	7.78	+5.01	3.16	+0.33	2.10	-0.16	4.06	+1.11	34.11	-5.00	
Johnstown.....	4.05	-0.24	5.34	+1.59	3.94	-0.10	2.19	-1.77	1.40	-3.19	3.01	-2.18	3.71	-1.69	5.39	+0.84	6.31	+2.81	4.24	+1.25	2.82	-0.10	4.25	+0.60	45.65	-2.18	
Kregar.....	3.05	.....	5.47	.....	2.62	.....	1.68	.....	1.63	.....	4.03	.....	3.18	.....	7.03	.....	6.60	.....	4.93	.....	2.48	.....	3.28	.....	46.98	.....
Linesville.....	2.18	.....	2.16	.....	1.53	.....	3.11	.....	1.52	.....	3.90	.....	2.88	.....	5.99	.....	9.84	.....	6.92	.....	3.30	.....	2.35	.....	.....	.....
Lock No. 4.....	2.37	-0.82	5.20	+2.47	1.57	-1.73	2.05	-1.12	1.36	-2.31	2.39	-1.62	1.82	-2.53	6.85	+3.23	6.22	+3.44	3.63	+0.87	3.43	+1.03	3.85	+0.96	40.74	+1.87	
Lycippus.....	4.17	+0.10	5.60	+2.56	2.01	-1.73	1.37	-2.41	2.14	-1.82	5.37	+0.88	1.81	-3.23	5.74	+1.43	7.82	+4.79	6.27	+3.22	2.58	+0.02	4.14	+0.45	49.02	+4.26	
Martin.....	2.68	.....	4.77	.....	2.17	.....	1.64	.....	1.18	.....	3.10	.....	4.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mt. Lebanon.....	2.62	.....	4.10	.....	1.78	.....	1.86	.....	2.07	.....	1.98	.....	1.77	.....	5.31	.....	8.50	.....	4.49	.....	3.27	.....	3.22	.....	40.97	.....
New Castle.....	2.71	-0.20	2.39	-0.02	1.71	-1.04	2.40	-0.53	2.09	-1.21	4.48	+0.04	2.24	-1.90	7.18	+3.97	5.15	+2.01	4.65	+1.91	3.70	+1.54	2.38	-0.08	41.08	+4.49	
Newell.....	2.06	.....	3.65	.....	1.63	.....	1.03	.....	1.29	.....	2.04	.....	1.42	.....	6.13	.....	5.47	.....	3.33	.....	2.00	.....	3.10	.....	38.15	.....
Parkers Landing.....	2.91	-0.50	4.00	+0.92	2.55	-1.03	2.24	-1.32	2.16	-1.66	4.74	+0.40	1.95	-2.39	5.19	+1.02	8.28	+4.98	4.76	+1.88	4.79	+1.94	2.81	-0.37	46.38	+3.87	
Pennline.....	1.12	.....	2.94	.....	.....	.....	3.77	.....	1.52	.....	5.99	.....	2.78	.....	6.26	.....	9.79	.....	7.51	.....	3.28	.....	1.79	.....	.....	.....
Pittsburgh.....	2.85	-0.02	3.47	+0.81	1.73	-1.28	1.46	-1.44	2.10	-1.20	1.20	-2.69	1.72	-2.70	2.95	-0.23	7.45	+4.97	4.12	+1.76	3.27	+0.72	3.12	+0.39	35.44	-0.91	
Ridgway.....	.....	.....	.....	.....	1.47	-1.90	2.28	-0.58	1.46	-2.72	5.38	+0.95	3.12	-0.85	6.02	+2.58	7.62	+4.74	.....	.....	.....	.....	.....	.....	.....	.....
Saegertown.....	1.80	-1.57	2.56	-0.47	2.36	-1.04	4.35	+1.01	2.17	-2.28	4.51	+0.16	2.68	-1.57	.....	.....	.....	.....	7.28	+3.68	5.06	+1.78	2.63	-0.63	.....	.....
Saltsburg.....	2.75	-1.03	4.79	+1.80	1.76	-1.43	0.92	-2.41	1.73	-1.69	1.86	-2.16	3.18	-0.77	4.50	+0.60	7.93	+4.60	3.95	+0.78	2.82	+0.72	4.04	+0.74	40.23	-0.25	
Sharon.....	1.23	.....	2.92	.....	1.09	.....	1.82	.....	2.14	.....	3.27	.....	2.75	.....	3.89	.....	7.90	.....	5.40	.....	3.06	.....	2.21	.....	37.68	.....
Somerset.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.94	+1.22	.....	.....	3.80	+0.68	2.75	-0.71	2.32	-1.63	.....	.....
Springdale.....	2.63	-1.05	4.46	+1.94	1.76	-1.65	2.03	-1.25	2.48	-1.08	2.52	-1.74	2.03	-1.76	5.26	+0.95	10.52	+7.33	3.74	+0.42	3.54	+1.61	3.35	+0.18	44.32	+3.80	
Uniontown.....	3.61	-0.24	5.66	+2.53	2.09	-1.87	1.80	-1.95	1.55	-2.52	3.11	-1.80	3.71	-1.35	6.97	+2.14	5.86	+2.68	5.29	+2.08	2.14	-0.97	4.12	+0.52	45.91	-0.75	
Unity Reservoir.....	4.25	.....	5.69	.....	2.33	.....	1.57	.....	1.46	.....	2.82	.....	2.06	.....	5.93	.....	6.23	.....	5.03	.....	2.18	.....	4.61	.....	44.16	.....
Vandergrift.....	.....	.....	4.41	.....	2.68	.....	2.11	.....	1.86	.....	3.10	.....	.....	.....	5.44	.....	13.90	.....	3.74	.....	2.99	.....	3.14	.....	.....	.....
Warren.....	1.87	-1.05	2.59	-0.06	2.11	-1.02	2.75	-0.76	1.11	-3.34	5.11	+0.79	2.95	-1.88	7.96	+3.86	7.14	+3.51	6.16	+2.71	4.63	+1.80	2.85	-0.26	47.24	+3.80	
Washington.....	2.36	.....	4.23	.....	1.90	.....	1.64	.....	1.69	.....	2.03	.....	1.93	.....	5.37	.....	8.03	.....	4.36	.....	2.97	.....	3.36	.....	39.87	.....
Westford.....	1.17	.....	3.09	.....	0.93	.....	3.27	.....	1.21	.....	3.98	.....	2.94	.....	4.02	.....	8.47	.....	5.87	.....	3.00	.....	2.14	.....	40.09	.....
West Newton.....	2.75	-0.74	4.44	+1.38	1.17	-2.46	0.92	-2.40	1.57	-1.99	2.49	-1.66	1.91	-2.58	6.40	+2.45	6.86	+4.26	3.51	+0.82	3.04	+0.72	4.06	+0.77	39.22	-1.33	
Zelienople.....	2.20	.....	3.65	.....	1.28	.....	2.37	.....	1.85	.....	4.46	.....	2.60	.....	4.21	.....	10.26	.....	4.63	.....	3.92	.....	2.76	.....	44.19	.....
POTOMAC BASIN																											
Biglerville.....	2.69	.....	5.74	.....	2.00	.....	2.16	.....	1.80	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chambersburg.....	3.51	+0.92	4.99	+2.08	1.78	-1.22	1.45	-1.39	0.91	-2.74	1.86	-2.15	3.03	-0.25	4.40	+0.16	3.38	+0.64	3.51	+0.31	5.12	+2.47	2.56	-0.06	36.50	-1.23	
Gettysburg.....	3.19	+0.05	4.04	+1.23	1.84	-1.32	2.06	-1.54	1.63	-2.34	2.79	-1.11	3.49	-0.13	5.08	+1.01	4.92	+1.55	3.81	+0.61	6.71	+4.04	1.88	-1.45	41.44	+0.60	
Hyndman.....	3.25	-0.35	3.23	+0.49	1.67	+0.68	0.97	-2.60	0.95	-2.25	3.26	-2.06	2.86	-0.25	4.51	+0.23	6.78	+3.62	3.01	+0.15	4.52	+2.98	2.18	-0.69	37.19	-2.41	
LAKE BASIN																											
Erie.....	1.82	-1.21	2.51	-0.34	2.04	-0.62	3.75	+1.35	1.20	-2.23	5.32	+1.57	2.41	-0.80	3.11	-0.15	5.73	+2.24	7.98	+4.18	3.74	+0.13	2.57	-0.49	42.18	+3.63	
West Bingham.....	2.38	-0.08	2.55	+0.73	1.40	-1.30	3.23	+0.21	1.49	-2.50	4.46	+0.47	2.03	-1.72	4.91	+1.34	4.42	+1.29	4.02	+1.07	3.24	+1.12	2.05	-0.09	36.18	+0.54	

Monthly and Annual Mean Temperatures for the Year 1926, with Departures from the Normal

STATIONS	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Atlantic Drainage.																										
Allentown.....	28.6	.....	28.3	.....	33.6	.....	46.6	.....	60.6	.....	65.6	.....	74.0	.....	72.8	.....	63.8	.....	51.4	.....	40.8	.....	26.8	.....	47.4	.....
Altoona.....	27.0	-0.3	28.0	+2.2	31.2	-6.1	44.2	-4.0	58.4	-1.0	62.3	-3.9	69.9	-1.2	70.1	+0.5	62.6	-0.1	51.4	-0.5	37.9	-2.9	25.9	-3.1	47.4	-1.7
Bethlehem.....	30.8	+0.9	29.8	0.0	35.7	-3.9	47.0	-4.9	62.0	-1.0	67.0	-2.8	.....	.....	.....	.....	67.2	+1.0	53.9	-1.6	43.2	-0.8	28.6	-4.5	.....	.....
Biglerville.....	28.8	.....	30.0	.....	35.5	.....	48.2	.....	61.7	.....	66.8	.....	74.1	.....	74.3	.....	66.2	.....	54.0	.....	43.6	.....	28.8	.....	.....	.....
Bustleton.....	31.6	.....	.....	.....	37.0	.....	48.4	.....	61.7	.....	66.8	.....	74.1	.....	74.3	.....	66.2	.....	54.0	.....	43.6	.....	28.8	.....	.....	.....
Carlisle.....	29.0	+1.1	30.5	+1.1	37.7	+0.2	50.8	-1.4	65.0	+3.6	67.6	-3.3	75.1	+0.3	74.2	+1.5	67.1	+2.4	53.9	+1.6	40.6	-0.1	28.8	-2.5	51.7	+0.4
Catawissa.....	27.2	-0.9	28.6	-0.5	33.8	-3.8	45.4	-5.9	59.3	-2.1	64.2	-3.5	72.8	+0.1	71.6	+1.3	63.2	-0.3	51.4	-2.2	41.0	-1.4	26.2	-5.4	48.7	-2.1
Center Hall.....	28.1	+2.7	30.0	+4.1	33.7	-2.1	45.8	-3.1	57.2	-2.6	61.9	-4.2	72.7	+1.3	.....	.....	60.6	-1.4	50.4	-1.0	38.6	-1.3	25.2	-3.8	.....	.....
Chambersburg.....	29.0	+0.3	30.3	-0.5	36.2	-2.2	48.2	-1.6	60.8	-0.4	66.3	-3.1	74.2	-0.5	73.2	+1.0	65.6	-0.3	53.3	+0.5	40.0	-1.4	29.0	-3.9	50.5	-1.0
Clearfield.....	26.7	-0.2	28.4	+0.9	33.6	-3.9	43.6	-4.7	58.8	-1.0	63.2	-4.1	71.6	+0.1	72.2	+2.3	65.0	+1.8	52.8	-0.2	38.9	-1.8	25.8	-2.9	48.4	-1.1
Coatesville.....	28.0	-2.4	29.0	-0.9	34.3	-5.1	46.6	-4.2	59.4	-2.3	65.2	-4.7	73.2	-1.5	72.6	+2.9	64.1	-2.0	51.2	-3.1	39.8	-3.1	26.4	-6.6	49.2	-2.7
Colebrook.....	27.6	+1.1	29.1	-0.7	34.1	-6.6	45.6	-4.3	59.2	0.2	64.0	-5.1	72.1	-0.4	70.8	+0.2	63.6	-0.5	49.8	-3.2	40.9	-0.1	26.8	-5.1	48.6	-2.1
Emporium.....	26.1	+0.3	26.6	+1.9	30.2	-4.8	41.4	-5.7	.....	.....	61.1	-5.1	67.8	-2.4	69.0	+1.1	60.9	-0.5	49.4	-0.6	38.1	-1.1	24.2	-4.9	.....	.....
Ephrata.....	29.5	+0.2	30.8	+2.7	36.2	-2.8	47.6	-2.4	60.4	-0.5	65.8	-2.2	74.0	0.0	72.6	+0.8	65.0	-0.5	53.0	-2.1	42.2	-0.2	29.0	-2.3	50.5	-0.8
Freeland.....	22.8	.....	21.8	.....	25.4	.....	38.4	.....	54.4	.....	59.8	.....	68.8	.....	66.2	.....	57.4	.....	45.7	.....	33.8	.....	19.7	.....	42.8	.....
George School.....	30.2	-0.6	30.4	+0.7	36.2	-3.0	47.1	-3.0	59.8	-1.2	65.1	-2.6	73.7	+0.1	73.2	+1.8	66.0	+1.1	53.1	-1.8	43.3	+0.7	28.6	-3.7	50.6	-0.9
Gettysburg.....	30.6	+1.6	31.9	+1.6	37.7	-1.5	50.0	-0.4	62.8	+1.5	67.4	-2.2	75.8	+1.8	74.4	+2.7	67.3	+2.3	55.2	+3.0	41.8	+0.5	30.5	-1.2	52.1	+0.8
Gordon.....	26.6	+0.2	27.4	+2.1	31.6	-4.3	43.2	-4.7	56.5	-2.0	61.8	-3.4	70.2	0.0	69.9	+1.7	62.2	+0.4	49.4	-1.3	38.6	-0.4	24.5	-4.0	46.8	-1.3
Gouldsboro.....	23.4	.....	21.2	.....	24.0	.....	38.6	.....	52.8	.....	58.2	.....	65.5	.....	65.6	.....	57.8	.....	46.0	.....	34.8	.....	21.6	.....	42.5	.....
Hamburg.....	27.4	-1.3	28.6	-0.2	34.0	-4.4	44.2	-6.2	.....	.....	63.8	-5.7	72.2	-1.7	71.4	-0.3	64.0	-1.5	52.2	-1.7	40.0	-2.2	26.8	-5.2	.....	.....
Hanover.....	31.0	-1.9	34.5	+2.8	37.6	-4.0	49.4	-3.6	62.0	-1.9	68.4	-2.2	75.8	+0.4	74.4	+0.8	66.5	-0.7	55.2	-0.9	43.1	-1.1	30.2	-3.6	52.3	-1.4
Harrisburg.....	29.6	+0.6	30.4	+0.2	35.8	-3.1	47.6	-3.3	62.4	+0.6	66.8	-3.5	75.0	+0.2	73.8	+1.2	64.8	-1.0	54.2	-0.6	42.0	-0.8	29.2	-3.5	51.0	-1.1
Hawley.....	25.2	.....	24.4	.....	29.0	.....	41.8	.....	56.4	.....	61.3	.....	70.2	.....	69.2	.....	60.4	.....	47.6	.....	38.4	.....	22.0	.....	45.5	.....
Holtwood.....	30.4	.....	31.6	.....	35.8	.....	48.2	.....	61.6	.....	66.6	.....	74.5	.....	73.8	.....	66.0	.....	54.3	.....	43.4	.....	29.6	.....	51.3	.....
Huntingdon.....	29.0	+0.4	30.8	+2.4	34.8	-3.5	46.8	-2.8	60.4	-0.3	64.8	-3.4	72.0	-0.2	72.4	+1.7	64.8	+0.5	52.8	+0.3	39.5	-2.0	27.0	-4.5	49.6	-0.9
Hyndman.....	30.4	+0.7	33.2	+3.1	36.3	-3.6	47.3	-3.6	60.6	+8.2	64.8	-2.6	73.1	+1.1	73.2	+2.3	66.6	+2.1	54.0	+0.7	40.4	-1.6	30.5	-1.6	50.9	+0.5
Lancaster.....	29.0	-0.6	29.4	-0.4	34.4	-3.6	46.5	-4.3	59.8	-1.2	67.6	-2.5	75.2	+1.8	74.5	+1.8	67.0	+2.5	54.8	+1.4	44.3	+1.2	31.7	-1.7	51.2	-0.4
Ohio Drainage.																										
Beaver Dam.....	28.2	-1.8	31.7	-0.9	35.2	-6.4	46.3	-3.8	60.5	+0.1	66.4	-3.9	72.9	-1.0	74.4	+1.9	67.2	+1.0	54.3	-1.2	42.4	-0.9	30.8	-2.4	50.9	-1.6
Bradford.....	25.8	.....	25.4	.....	29.1	.....	41.6	.....	55.7	.....	60.4	.....	68.8	.....	69.8	.....	62.2	.....	48.6	.....	38.2	.....	24.6	.....	45.7	.....
Brookville.....	22.0	-2.8	23.6	-0.7	28.2	-4.7	40.0	-5.8	53.9	-2.6	58.9	-4.6	66.0	-2.4	68.0	+1.5	60.7	+1.0	47.7	-2.7	35.2	-2.4	21.6	-6.3	43.8	-2.7
Claysville.....	29.0	-1.9	31.8	+2.0	34.9	-5.7	45.8	-4.8	61.0	-0.3	65.9	-2.3	73.4	+0.7	74.4	+2.9	67.7	+2.5	54.2	+0.5	42.0	+0.5	30.5	-1.4	50.9	-0.6
Corry.....	23.8	-0.5	24.2	-1.2	27.6	-4.8	39.6	-5.4	54.0	+0.2	60.8	-4.6	68.2	+1.0	69.6	+4.2	62.2	+2.5	49.4	+2.6	37.8	-0.4	24.0	-4.7	45.1	-0.9
Derry.....	29.0	-1.4	31.4	+3.3	34.5	-5.6	46.0	-3.3	60.3	-1.2	65.0	-3.6	72.5	-0.8	72.4	+1.1	66.0	+0.6	53.2	-1.2	42.1	+0.2	30.8	-0.9	50.3	-0.8
Donora.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ebensburg.....	26.4	.....	27.7	.....	30.2	.....	42.6	.....	57.7	.....	60.4	.....	66.8	.....	67.5	.....	61.6	.....	49.6	.....	36.7	.....	25.4	.....	46.0	.....
Elk Lick.....	24.3	.....	26.5	.....	28.6	.....	38.3	.....	51.8	.....	57.0	.....	67.0	.....	66.0	.....	59.0	.....	.....	.....	35.6	.....	27.2	.....	.....	.....
Franklin.....	23.4	-3.1	26.4	+1.8	28.8	-7.3	40.9	-5.4	56.0	-2.0	61.6	-4.0	68.4	-2.1	70.1	+1.8	63.0	+0.7	49.3	-2.0	37.1	-2.5	25.0	-4.2	45.8	-2.4
Greensburg.....	29.2	-1.4	31.2	+1.2	34.8	-4.0	45.7	-4.5	60.6	+0.1	65.6	-1.5	73.8	-1.9	73.7	+3.0	66.6	+2.4	53.4	-0.4	42.4	+0.2	30.5	-1.1	50.6	+0.4
Greenville.....	24.6	-2.8	27.8	+4.3	.....	.....	41.5	-4.8	57.1	-0.6	63.2	-2.9	71.1	+0.6	71.7	+3.1	64.3	+2.5	50.8	+0.5	39.2	0.0	26.1	-3.9	.....	.....
Grove City.....	25.6	-1.4	28.3	+2.7	32.6	-3.7	42.4	-4.8	57.4	-0.6	63.2	-1.6	69.4	-0.7	69.8	+0.1	63.6	+1.3	50.8	-0.6	38.0	-1.9	25.8	-3.4	47.2	-1.2
Indiana.....	22.8	-0.7	28.0	-0.3	32.2	-6.3	43.0	-6.8	58.4	-2.0	64.0	-3.2	71.0	-0.3	70.6	+0.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ingram.....	.....	.....	31.6	.....	35.0	.....	45.8	.....	60.6	.....	65.8	.....	72.6	.....	73.5	.....	66.6	.....	53.6	.....	42.2	.....	30.8	.....	50.6	.....
Irwin.....	26.6	-4.3	30.2	+1.2	32.5	-8.4	44.1	-6.3	59.4	+2.2	64.1	-4.9	73.4	+1.0	73.5	+2.3	66.2	+1.8	52.8	-1.9	40.2	-2.5	29.9	-2.4	49.4	-2.2
Johnstown.....	29.8	-0.1	30.6	+1.4	34.0	-4.9	46.4	-3.3	61.2	-0.1	65.9	-3.0	73.2	+0.2	73.8	+2.5	66.0	+0								

COOPERATIVE AND RAINFALL OBSERVERS

Stations	Observers	Stations	Observers	Stations	Observers
Allentown.....	John A. Frick.	Graterford.....	C. K. Kulp.	Philadelphia.....	{ Commandant, Navy
Altoona.....	Louis E. Biller.	Greensburg.....	Westmoreland Water Co.	Navy Yard	Yard.
Ansonia.....	Paul H. Mulford.	Greenville.....	J. R. Marks.	Phila- Point Breeze...	Atlantic Refining Co.
Bakers Summit.....	M. Snyder.	Grove City.....	Prof. H. W. Harmon.	Phoenixville.....	N. Springfield Water Co.
Beaver Dam.....	F. H. McCullough.	Hamburg.....	State Sanatorium.	Pine Grove.....	East Penn Electric Co.
Beaver Falls.....	U. S. Engineer.	Hanover.....	Mrs. Mabel Wolcott.	Pittsburgh.....	U. S. Weather Bureau.
Bethlehem.....	Lehigh University.	Harrisburg.....	U. S. Weather Bureau.	Pleasant Mount.....	G. W. Buller.
Biglerville.....	Vacant.	Hawley.....	J. S. Pennell.	Pottstown.....	J. Ernest Spare
Blosserville.....	A. G. Mountz.	Herr's Island Dam...	U. S. Engineer.	Pottsville.....	John H. Strauch.
Bradford.....	B. A. Wise, C. E.	Holtwood.....	H. W. Lowy, C. E.	Quakertown.....	John E. Benner.
Brookville.....	John Fawcett.	Huntingdon.....	Prof. W. J. Swigart.	Reading.....	U. S. Weather Bureau.
Bustleton.....	Agr. Experiment Station.	Hyndman.....	John S. Madore.	Renovo.....	J. H. Baird.
Carlisle.....	Clarence E. Miller.	Indiana.....	Penn. Public Service Co.	Ridgway.....	Earl Overholser.
Catawissa.....	H. H. Yetter.	Ingram.....	W. R. Gormly.	Saegertown.....	C. J. Apple.
Center Hall.....	S. W. Smith.	Irwin.....	W. F. Gallagher.	Saltsburg.....	Thomas M. Duncan.
Chambersburg.....	Wm. B. Spear.	Johnstown.....	E. C. Lorentz.	Scranton.....	U. S. Weather Bureau.
Chaysville.....	J. L. Melvin.	Ketner.....	J. Nelson.	Selinsgrove.....	Dr. George E. Fisher.
Clearfield.....	E. W. Hess, C. E.	Lancaster.....	Supt. Water Works.	Sharon.....	H. H. Gerber.
Cloe.....	Frank McElwain.	Lansford.....	Lehigh Coal & Nav. Co.	Shawmont.....	Winfield S. Guiles.
Clymer.....	Thomas Fleitz.	Lawrenceville.....	C. P. Darling.	Snow Hill.....	G. L. Dorny.
Coatesville.....	W. T. Gordon.	Lebanon.....	S. B. Benzinger.	Somerset.....	Penn. Public Service Co.
Colebrook.....	William A. Rorer.	Lewisburg.....	Prof. Wm. G. Owens.	Springdale.....	U. S. Engineer.
Confluence.....	Grant Fyle.	Linesville.....	Water Supply Com.	State College.....	C. A. Kern.
Conshohocken.....	Russell C. Erb.	Lloyd.....	M. L. Fish.	Sunbury.....	Chas. E. Frymoyer.
Coraopolis.....	U. S. Engineer.	Lock Haven.....	Joseph A. Beaver.	Towanda.....	Hiram E. Bull, C. E.
Corry.....	N. R. Dickson.	Lock No. 4.....	U. S. Engineer.	Uniontown.....	Wm. W. Marsteller.
Coudersport.....	F. W. Kendig.	Lycippus.....	Westmoreland Water Co.	Unity Reservoir.....	Westmoreland Water Co.
Creekside.....	John E. Lewis.	Lykens.....	Susquehanna Coal Co.	Vandergrift.....	H. R. Belding.
Cresson.....	J. C. Burrows.	Martin.....	U. S. Engineer.	Warren.....	Mrs. Anna Simpson
Derry.....	Ted R. Wineman.	Mauch Chunk.....	R. K. Wintermute.	Washington.....	G. S. Buchanan.
Donora.....	Donora Zinc Works.	Millintown.....	Wellington Smith.	Weikert.....	David Libby.
Doylestown.....	Geo. Hart.	Montrose.....	Silas Jagger.	Wellsboro.....	George W. Hill.
Ebensburg.....	D. H. Jones.	Morris Run.....	Morris Run Mining Co.	West Bingham.....	Frank Johnson.
Elk Lick.....	J. S. Stevanus.	Mt. Lebanon.....	Fred Hoffman.	West Chester.....	Arthur M. Hay.
Emporium.....	T. B. Lloyd.	Mount Pocono.....	Cecil J. Hoskinson.	Westford.....	C. C. Collins.
Ephrata.....	Ira J. Keath.	Mount Union.....	C. R. Gracey.	West Newton.....	A. B. Adams.
Erie.....	U. S. Weather Bureau.	Muncy Valley.....	A. H. Boatman.	Wilkes-Barre.....	Milton Wentz.
Falls Creek.....	J. S. Snell.	Narberth.....	Charles Decker.	Williamsport.....	George A. Beck.
Forest City.....	L. L. Whipple.	Neshaminy Falls.....	N. Springfield Water Co.	York.....	C. L. Bott.
Franklin.....	R. A. Fergus.	New Castle.....	New Castle Water Co.	York Haven.....	York Haven Water Co.
Freeland.....	Theodore Reichmann.	Newell.....	General Chemical Co.	Zelienople.....	J. M. S. Miskimen.
Freeport.....	Mrs. Anna R. Burtner.	New Park.....	C. J. Allen.		
George School.....	N. W. Swayne.	Palmerton.....	Frank G. Breyer.		
Gettysburg.....	Col. E. B. Cope.	Parkers Landing.....	Henry Turk.		
Girardville.....	Girard Water Co.	Penn Line.....	Retta Crumb.		
Gordon.....	Capt. J. G. Johnson.	Philadelphia.....	U. S. Weather Bureau.		
Gouldsboro.....	Gustav Holtz.	Philadelphia-Gtn.....	Julius Bernstein.		

WEATHER BUREAU AND COOPERATIVE STATIONS, 1926



KEY TO SYMBOLS.

- Meteorological Observations. (Regular Weather Bureau Stations.)
- Meteorological Observations. (Sub Stations.)

